CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, August 9, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Aug. 9	Paving	Memphis, Tenn	P., S. & B. S.	7-26
13	Bridge	Battleford, Sask	P.	7-19
*13	Concrete piers	Battleport, Sask.	P.	8- 2
*15	Dredging	Philadelphia, Pa	S. & B. S.	8- 2
*17	Sewers	Portland, Ore	P., S. & B. S.	7-26
22	Intake pier, etc.	Buffalo, N. Y.	S.	
*23	Grading, steel bars	Billings, Mont.	P. & S.	7-12
*27	Pumping Machinery	Winnipeg, Man.	P., S. & B. S.	8- 9
*30	Boilers and Chimney	Galveston, Tex.	S. & B. S.	7-26
*30	Canals and ditches	Williston, N. Dak.	P. & S.	7-12
*30	Tunnel	Salt Lake City, Utah.	P., S. & B. S.	6-21
Sept. 1	Storage Works	Conconully, Wash.	P., S. & B. S.	7-26
10	Electric Pumps	Buford, N. Dak.	P., S. & B. S.	8- 9
*11	Canals, etc.	Williston, N. Dak.	P., S. & B. S.	7-19
15	Hotel bldg.	Manila, P. I.	S.	3-29
*18	Portland Cement	Portland, Ore.	S.	7-26
Oct. *1	Lock	Donaldsonville, Pa.	P. & S.	7- 5

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue.
Aug. 9	Wiring and Lighting	Brooklyn N. Y.	Aug.	9
Aug. 10	Gate valves	Chicago, Ill.	Aug.	9
Aug. 10	Boilers	Winona, Minn.	Aug.	2
Aug. 10	Lights	Mobile, Ala.	July	26
Aug. 13	Lighting plant, Sunnyside, Wash. Advertised, Eng. News, July 12 to 26.		Aug.	2
Aug. 14	Elec. apparatus	Williston, N. Dak.	July	12
Aug. 15	Elec. Lighting Plant, Clay Center, Kans. Advertised, Eng. News, Aug. 9 to 16.		Aug.	9
Aug. 16	Electric Light Plant	Oxford, Ohio.	Aug.	9
Aug. 17	Engines, etc.	Chicago, Ill.	Aug.	9
Aug. 18	Power-house	Elizabeth, Pa.	Aug.	2
Aug. 21	Heating and power plant	Evansville, Ind.	Aug.	9
Aug. 22	Heating plant	Deadwood, S. Dak.	Aug.	2
Aug. 23	Lighting city streets	Rochester, N. Y.	Aug.	9
Sept. 10	Electric pumps	Buford, N. Dak.	Aug.	9
Sept. 10	Electric machinery	Williston, N. Dak. Advertised, Eng. News, July 19 to Aug. 16.	July	19
Sept. 12	Transformer plant	Chicago, Ill.	July	26
Sept. 12	Transformer sub-station	Chicago, Ill.	Aug.	9
Sept. 18	Lighting	Pottsville, Pa.	July	12

BRIDGES.

Bids close.	Work.	Place.	On file.	See issue.
Aug. 10	Viaduct	Covington, Ind.	July	26
Aug. 10	Steel bridge	Mt. Vernon, Ind.	Aug.	9
Aug. 10	Concrete bridge	Mt. Vernon, Ind.	Aug.	9
Aug. 11	Two bridges	North Yakima, Wash.	Aug.	9
Aug. 11	Reconstruction, Fortress Monroe, Va. Advertised, Eng. News, July 19 and 26.		July	19
Aug. 13	Two bridges	Topeka, Kans.	July	12
Aug. 13	Piers and abutments	Regina, Sask.	July	26
Aug. 13	Superstructure	Zanesville, Ohio.	July	26
Aug. 13	Two bridges	New Rockford, N. Dak.	Aug.	2
Aug. 13	Concrete piers, Battleford, Sask. Advertised, Eng. News, Aug. 2.		Aug.	2
Aug. 15	Bridge masonry	Winston-Salem, N. C. Advertised, Eng. News, Aug. 2 and 9.	Aug.	2
Aug. 16	Viaduct	Cleveland, Ohio. Advertised, Eng. News, Aug. 2 and 9.	Aug.	2
Aug. 17	Three bridges	Portsmouth, Ohio.	July	26
Aug. 17	Bridge	Tacoma, Wash.	Aug.	9
Aug. 18	Culverts	Cleveland, Ohio.	Aug.	9
Aug. 20	Bridge	Carbondale, Pa. Advertised, Eng. News, Aug. 9 and 16.	Aug.	9
Aug. 20	Bridge	St. Clairsville, Ohio.	Aug.	2
Aug. 21	Bridge	Cambridge, Md.	Aug.	9
Aug. 25	Bridge	Huntley, Mont.	Aug.	2
Aug. 27	Three bridges	Wichita, Kans.	Aug.	9
Aug. 30	Two bridges	New Philadelphia, Ohio.	Aug.	2
Sept. 4	Removing bridge	Creston, S. Dak.	Aug.	9
No date.	Bridge	Warsaw, Ohio.	Aug.	9

BUILDINGS.

Bids close.	Work.	Place.	On file.	See issue.
Aug. 9	Cleaning system	Wheeling, W. Va. Advertised, Eng. News, July 26 and Aug. 2.	July	26
Aug. 9	School building	Saginaw, Mich.	Aug.	2
Aug. 10	Jail	St. Louis, Mo.	Aug.	2
Aug. 10	College building	Ames, Ia.	July	19
Aug. 10	School house	Fessenden, N. Dak.	Aug.	9
Aug. 11	Cathedral	St. Paul, Minn.	Aug.	9
Aug. 11	Bldg. & brick chimney	Charleston, S. C.	July	26
Aug. 13	Library	Junction City, Iowa.	Aug.	9
Aug. 15	Club-house	Washington, D. C.	July	26
Aug. 17	Public school	Lakonta, Iowa.	Aug.	9
Aug. 20	Jail	Salisbury, N. C.	Aug.	2
Aug. 21	Plant	Wilmington, Del.	Aug.	2
Aug. 21	Changes in lift	Chicago, Ill.	Aug.	9
Aug. 22	Two cottages	Hudson, N. Y. Advertised, Eng. News, Aug. 9.	Aug.	9
Aug. 24	Door screens	Delaware City, Del. Advertised, Eng. News, Aug. 2 to 23.	Aug.	2
Aug. 25	Screen doors	Dodge, Ga. Advertised, Eng. News, July 26 to Aug. 16.	July	26
Aug. 27	Court-house	Gallatin, Mo.	July	19
Aug. 27	School building	Wetumka, Ind. T.	Aug.	9
Aug. 28	Court-house	Gallatin, Mo.	Aug.	2
Aug. 29	Plumbing	Albany, N. Y. Advertised, Eng. News, Aug. 2 to 23.	Aug.	2
Aug. 30	3-story C. S. P. S. lodge building, theater and gymnasium	Traverse City, Mich.	Aug.	2
Sept. 7	Officers' quarters	West Point, N. Y. Advertised, Eng. News, Aug. 9.	Aug.	9
Sept. 15	Hotel	Manila, P. I.	Mar.	29

WATER SUPPLY AND IRRIGATION.

Bids close.	Work.	Place.	On file.	See issue.
Aug. 9	Pump-house, etc.	Fort Snelling, Minn.	July	26
Aug. 10	Boilers	Chicago, Ill.	Aug.	2
Aug. 10	Water-works	Alma, Nebr.	Aug.	9
Aug. 13	Water-works	Fremont, Mich.	Aug.	9
Aug. 13	Filter reservoir	Wilmington, Del. Advertised, Eng. News, July 26 and Aug. 2.	July	26
Aug. 13	Water-works	Sunnyside, Wash.	Aug.	2
Aug. 14	Water-works	Saskatoon, Sask.	July	26
Aug. 14	Pumps	Portsmouth, N. H.	July	26
Aug. 15	Engine house, etc.	New York, N. Y. Advertised, Eng. News, July 26 and Aug. 2.	Aug.	2
Aug. 15	Water-works improvements	Clay Center, Kans.	Aug.	9
Aug. 17	Water-works	La Farge, Wis.	Aug.	9
Aug. 17	Laying pipe	Dayton, Ohio. Advertised, Eng. News, Aug. 9.	Aug.	9
Aug. 18	Laying pipe	Westborough, Mass. Advertised, Eng. News, Aug. 9.	Aug.	9
Aug. 21	Reservoirs, etc.	Wales, Wis. Advertised, Eng. News, Aug. 9.	Aug.	9
Aug. 21	Water-works, Steelton, Ont.		Aug.	9
Aug. 21	Valve system	Buffalo, N. Y.	Aug.	2
Aug. 21	Laying pipe	Cincinnati, Ohio.	Aug.	2
Aug. 22	Completing intake	Philadelphia, Pa. Advertised, Eng. News, Aug. 9 and 16.	Aug.	9
Aug. 23	Reservoir, etc.	White Plains, N. Y. Advertised, Eng. News, Aug. 2 to 16.	Aug.	2
Aug. 24	Reservoir	Asheville, N. C. Advertised, Eng. News, Aug. 2 to 16.	Aug.	2
Aug. 25	Boilers	Chicago, Ill.	Aug.	9
Aug. 27	Water pipe, etc.,	Winnipeg, Man. Advertised, Eng. News, Aug. 9 and 16.	Aug.	9
Aug. 27	Pumps	Winnipeg, Man. Advertised, Eng. News, Aug. 2 to 16.	Aug.	2
Aug. 28	Artesian well	Newport, R. I.	Aug.	2
Aug. 30	Reservoir	Fort Wingate, N. Mex.	Aug.	2
Aug. 30	Boilers & chimney	Galveston, Tex.	July	26
Aug. 31	Intake, wall, etc.	Napa Cal.	Aug.	9
Sept. 4	Water-works	Malta, Ohio.	July	26
Sept. 5	Two reservoirs	New Orleans, La. Advertised, Eng. News, June 21 to Aug. 30.	June	21
Sept. 10	Electric pumps	Buford, N. Dak.	Aug.	9
Sept. 28	Pumping plant	Garden City, Kans. Advertised, Eng. News, Aug. 2 to Sept. 6.	Aug.	2

SEWERAGE.

Bids close.	Work.	Place.	On file.	See issue.
Aug. 9	Sewer	Claremore, Ind. T.	July	26
Aug. 10	Sewers	Janesville, Wis.	July	26
Aug. 11	Sewers	Seneca Falls, N. Y. Advertised, Eng. News, July 19 and 26.	July	19
Aug. 11	Storm sewer	Denver, Colo.	Aug.	9
Aug. 13	Sewers	New York, N. Y.	Aug.	9
Aug. 13	Sewer	Wabash, Ind.	Aug.	9
Aug. 13	Sewer	Sacramento, Cal.	Aug.	9
Aug. 13	Sewers	Oshkosh, Wis.	Aug.	2
Aug. 14	Sewers	Cleveland, Ohio	Aug.	2
Aug. 14	Sewer	Salem, Ohio.	Aug.	2
Aug. 14	Sewer	Conneaut, Ohio.	Aug.	9
Aug. 14	Sewer	New York, N. Y.	Aug.	9
Aug. 14	Sewers	St. Louis, Mo.	Aug.	9
Aug. 14	Sewer	Omaha, Nebr.	Aug.	9
Aug. 15	Sewers	Marion, Ohio.	Aug.	9
Aug. 16	Sewers	Osceola, Iowa.	Aug.	9
Aug. 16	Sewer	Guthrie, Okla.	Aug.	9
Aug. 17	Sewers	St. Louis, Mo.	Aug.	9
Aug. 17	Sewer	Portland, Ore. Advertised, Eng. News, July 26 to Aug. 9.	July	26
Aug. 18	Sewers	Westfield, Mass. Advertised, Eng. News, Aug. 9.	Aug.	9
Aug. 20	Sewers	Washington, D. C. Advertised, Eng. News, Aug. 9 and 16.	Aug.	9
Aug. 21	Sewers	Billings, Mont.	Aug.	9
Aug. 21	Sewers	Wales, Wis. Advertised, Eng. News, Aug. 9.	Aug.	9
Aug. 25	Sewers	Paducah, Ky. Advertised, Eng. News, Aug. 9 and 16.	Aug.	9
Aug. 27	Sewers	Lockland, Ohio	Aug.	2
Sept. 1	Sewers	Basin, Wyo.	Aug.	2
Sept. 7	Sewer gates	Manila, P. I. Advertised, Eng. News, July 5 to Aug. 23.	July	5
Sept. 27	Sewers	Brainerd, Minn.	Aug.	9

STREETS AND ROADS.

Bids close.	Work.	Place.	On file.	See issue.
Aug. 9	Paving	Memphis, Tenn.	July	26
Aug. 9	Asphalt paving	Memphis, Tenn.	July	19
Aug. 9	Constructing Park	New York, N. Y.	Aug.	2
Aug. 9	Paving, etc.,	New York, N. Y.	Aug.	2
Aug. 9	Steam roller	New York, N. Y.	Aug.	2
Aug. 9	Park paving, etc.	New York, N. Y.	Aug.	2
Aug. 10	Paving	St. Louis, Mo.	Aug.	2
Aug. 10	Macadam, etc.,	Waukegan, Ill.	Aug.	2
Aug. 10	Paving	Ashley, Pa.	Aug.	9
Aug. 11	Paving, etc.,	Portsmouth, Ohio.	July	26
Aug. 11	Gravel road	Terre Haute, Ind.	Aug.	2
Aug. 11	Macadam	Paulding, Ohio.	Aug.	2
Aug. 12	Gravel road	Valparaiso, Ind.	July	19
Aug. 13	Paving	Ashland, Ky.	Aug.	2
Aug. 13	Paving, Oil City, Pa. Advertised, Eng. News, Aug. 2.		Aug.	2
Aug. 13	Macadam	Mount Holly, N. J.	Aug.	2
Aug. 13	Paving	Adrian, Mich. Advertised, Eng. News, Aug. 2.	Aug.	2
Aug. 13	Grading, etc.,	Green Bay, Wis.	Aug.	9
Aug. 13	Grading	St. Paul, Minn.	Aug.	9
Aug. 13	Paving, etc.,	New York, N. Y.	Aug.	9
Aug. 14	Grading	Huntington, Ind.	Aug.	9
Aug. 14	Macadam	Des Moines, Iowa	Aug.	2
Aug. 14	Paving, etc.,	St. Louis, Mo.	Aug.	2
Aug. 14	Paving	Independence, Kans. Advertised, Eng. News, July 19.	July	19
Aug. 14	Road work	Cleveland, Ohio.	July	26
Aug. 15	Road work	Augusta, Me.	Aug.	2
Aug. 15	Grading, paving, etc.,	New York, N. Y.	Aug.	9
Aug. 15	Paving	Bucyrus, Ohio.	Aug.	9
Aug. 15	Macadam	Lakewood, Ohio.	Aug.	9
Aug. 15	Paving	Portland, Ind.	Aug.	9
Aug. 16	Paving, etc.,	New York, N. Y.	Aug.	9
Aug. 16	Macadam	Cleveland, Ohio.	Aug.	9
Aug. 17	Grading, etc.,	Cincinnati, Ohio.	Aug.	2
Aug. 20	Macadam	Wilkes-Barre, Pa. Advertised, Eng. News, Aug. 2 to 16.	Aug.	2
Aug. 20	Paving	Fredonia, N. Y.	Aug.	2
Aug. 20	Paving	Archbold, Ohio. Advertised, Eng. News, Aug. 9.	Aug.	9
Aug. 20	Paving	New Bremen, Ohio.	Aug.	9
Aug. 21	Grading	Stevenson, Wash.	Aug.	9
Aug. 21	Paving	Xenia, Ohio.	Aug.	9
Aug. 23	Macadam	Mount Kisco, N. Y. Advertised, Eng. News, Aug. 9 and 16.	Aug.	9
Aug. 23	Paving, etc.,	Cincinnati, Ohio.	Aug.	9
Aug. 23	Grading, etc.,	White Plains, N. Y. Advertised, Eng. News, Aug. 2 to 16.	Aug.	2
Aug. 25	Macadam	Bellefontaine, Ohio.	Aug.	9
Aug. 27	Paving, etc.,	Cincinnati, Ohio.	Aug.	9
Aug. 27	Sidewalks	Salem, N. J. Advertised, Eng. News, Aug. 2 to 16.	Aug.	2
Sept. 3	Macadam	Wilmington, N. C.	Aug.	9
Sept. 4	Flagging	Westfield, N. J. Advertised, Eng. News, Aug. 9 and 16.	Aug.	9

MISCELLANEOUS CONTRACTS.

Bids close.	Work.	Place.	On file.	See issue.
Aug. 9	Levee	New Orleans, La.	July	26
Aug. 9	Levee	Memphis, Tenn. Advertised, Eng. News, July 12 to Aug. 2.	July	12
Aug. 13	Granite posts, etc.,	Newport News, Va. Advertised, Eng. News, July 12 and 19.	July	12
Aug. 14	Light-house	Mobile, Ala. Advertised, Eng. News, July 19 to Aug. 16.	July	19
Aug. 14	Naval supplies	Washington, D. C.	July	26
Aug. 14	Bear trap, Wheeling, W. Va. Advertised, Eng. News, Aug. 2 and 9.		Aug.	2
Aug. 14	Levee	New Orleans, La.	Aug.	9
Aug. 15	Railway work, concrete	Syracuse, N. Y. Advertised, Eng. News, Aug. 2.	Aug.	2
Aug. 15	Dredging	Philadelphia, Pa. Advertised, Eng. News, Aug. 2 and 9.	Aug.	2
Aug. 15	Masonry, cofferdams, etc.,	Winston-Salem, N. C. Advertised, Eng. News, Aug. 2 and 9.	Aug.	2
Aug. 17	Dredging	Detroit, Mich. Advertised, Eng. News, Aug. 9 and 16.	Aug.	9
Aug. 18	26½ miles elec. railway	Hoopestown, Ill. Advertised, Eng. News, Aug. 9.	Aug.	9
Aug. 20	Levee	Savanna, Ill.	Aug.	9
Aug. 20	Wharf	Alaska.	Aug.	9
Aug. 20	Dredges	St. Louis, Mo. Advertised, Eng. News, July 19, 26, Aug. 9 and 16.	July	19
Aug. 21	Naval supplies	Washington, D. C.	July	26
Aug. 23	Grading, steel bars,	Billings, Mont. Advertised, Eng. News, July 12 to 26.	July	12
Aug. 25	Dredging	Wilmington, Del. Advertised, Eng. News, Aug. 9 to Aug. 23.	Aug.	9
Aug. 28	Lathe, grinder, etc.,	Washington, D. C. Advertised, Eng. News, Aug. 2 and 9.	Aug.	2
Aug. 30	Canals, etc.,	Williston, N. Dak. Advertised, Eng. News, July 12 to 26.	July	12
Aug. 30	Tunnel	Boston, Mass. Advertised, Eng. News, June 21 to July 26.	June	21
Aug. 30	Tunnel	Salt Lake City, Utah.	June	21
Aug. 30	Dam, Columbus, Ohio. Advertised, Eng. News, Aug. 9 to Aug. 23.		Aug.	9
Aug. 31	Scrap iron	Panama.	Aug.	9
Aug. 31	Drainage	St. Augustine, Fla.	July	19
Aug. 31	Dipper dredge	St. Augustine, Fla.	July	19
Sept. 1	Storage works	Concully, Wash. Advertised, Eng. News, July 26 to Aug. 16.	July	26
Sept. 4	Railway supplies, Siam (Foreign) Advertised, Eng. News, Apr. 26.		Apr	26
Sept. 4	Cars	Bangkok, Siam Advertised, Eng. News, May 3 and 10.	May	31
Sept. 4	Railway ties	Ottawa, Ont.	July	5
Sept. 11	Canals, ditches	Williston, N. Dak. Advertised, Eng. News, July 19 to Aug. 9.	July	19
Sept. 12	Locomotives	Bangkok, Siam Advertised, Eng. News, May 3 and 10.	May	31
Sept. 15	Canal, levee, Grosse Tete,	La.	July	26
Sept. 15	Irrigation ditches,	Hazen, Nev. Advertised, Eng. News, Aug. 2 to 30.	Aug.	2
Sept. 17	Dam,	Hermiston, Ore. Advertised, Eng. News, July 26 to Aug. 16.	July	26
Sept. 18	Portland cement,	Portland, Ore. Advertised, Eng. News, July 26 to Aug. 9.	July	26
Sept. 26	River dredging	Chicago, Ill.	July	19
Sept. 26	Dredging plant,	Chicago, Ill.	July	19
Sept. 28	Portland cement,	Garden City, Kans. Advertised, Eng. News, Aug. 9 to Aug. 30.	Aug.	9
Oct. 1	Ditches,	Portland, Ore. Advertised, Eng. News, Aug. 9 to Aug. 30.	Aug.	9
Oct. 1	Lock	Donaldsonville, La. Advertised, Eng. News, July 5 to Sept. 27.	July	5
Oct. 3	Coal-handling plant,	San Quentin, Cal. Advertised, Eng. News, Aug. 9 and Aug. 16.	Aug.	9
Oct. 15	Drains,	Rio Grande do Sul, Brazil	May	31
Oct. 15	Steel sheds,	Manila, P. I.	July	5
Oct. 15	Steel sheds, Rys.,	Manila, P. I. Advertised, Eng. News, July 19 to Aug. 30.	July	19
No date.	Grading	Cairo, Ill. Advertised, Eng. News, July 26.	July	26

CIVIL SERVICE EXAMINATIONS.

Aug. 15	Arch. Draftsman	Philippine Islands.	July	5
Aug. 18	Marine Engr.,	Albany, N. Y.	July	26
Aug. 18	Asst. Civil Engr.,	Albany, N. Y. Advertised, Eng. News, July 26.	July	26
Aug. 22	Tracer	Panama	July	19
Aug. 22	Science Engineer	Manila, P. I.	July	19
Aug. 29	Arch. Draftsman	Washington, D. C.	Aug.	9
Aug. 29	Inspector of Sewers	Manila, P. I.	Aug.	9
Aug. 29	Civil Engineer	Manila, P. I.	Aug.	9
Aug. 29	Chemist	Manila, P. I.	Aug.	9
Aug. 29	Engineer	Warmsprings, Ore.	Aug.	9
Sept. 5	Engineer	Fort McKinley, Me.	Aug.	9

Proposed Work

ENGINEERING NEWS desires to obtain the EARLIEST POSSIBLE RELIABLE INFORMATION concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, Construction News Department

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALAFIA, MANATEE & GULF COAST.—See Charlotte Harbor & Northern Ry.

ALMA R. R. CONSTRUCTING & IRRIGATING CO.—L. Jamison, Secy., Alamogordo, N. Mex., states that this company, recently incorporated, proposes to build a railroad from South McAlester, Ind. T., to Honey Grove, Tex., 180 miles, of which 160 miles will be in the Indian Territory and 20 miles in Texas. The route has been located. It is expected to begin construction in September or October. J. D. Russell is Pres. and Ch. Engr., Eagle Lake, Tex.; F. Ellsworth, Vice-Pres., New York.

ARKANSAS.—A report from Fort Smith, Arkansas, states that James F. Hoye, Supt. of the Onita mines at Russellville, Ark., is to have a survey made for a railroad from Fort Smith to Prairie View, Ark. H. L. Remmel of Little Rock., and others are reported to be interested.

ASTORIA & COLUMBIA RIVER.—An extension from Seaside, via Nehalem, to Tillamook Bay, Ore., 36 miles, is proposed. It is reported that construction will not be begun until next year. G. W. Talbot is Gen. Mgr., at Astoria, Ore.

ATLANTA, BIRMINGHAM & ATLANTIC.—The contract for building the section of this road from Talladega to Pelham, Ala., about 75 miles, has been awarded to C. D. SMITH & CO., of Memphis, Tenn., who will sublet the work at once. Surveys have been made from Pelham to Birmingham, 19 miles. Noted on July 12.

ATLANTIC, QUEBEC & WESTERN.—This company has been formed under special acts to build two railroads aggregating 382 miles. One line is to run from the deepwater harbor at Gaspe, Que., west, through Gaspe County to Amqui on the Intercolonial, thence south to Edmundston on the St. John River, 260 miles. At Edmundston connection can be made with the Canadian Pacific, and with the proposed Grand Trunk Pacific. The other line is to run from a point at or near Gaspe Harbor along the coast in a southerly direction through Douglas, Newport, Port Daniel, Hope and Cox to Paspebiac on the Atlantic & Lake Superior, 102 miles. The Provincial Government of Quebec has authorized the granting to the company of land amounting to 4,000 acres per mile for the 150 miles mentioned in the act. Bonds are now being offered in London to secure funds to carry out this project. Charles Brien and Joseph Lavoie, of Gaspe, are directors, and E. Stanley Elvey, Secy.

BALTIMORE & OHIO.—ROYDHOUSE, AREY & CO., Philadelphia, Pa., have been granted a permit for a group of shop buildings in the yard at 30th and Jackson Sts., recently purchased by the Baltimore & Ohio R. R. The yard embraces an area of 20 acres, and is bounded by Jackson, Moore and 36th Sts. and the Schuylkill River. The buildings, seven in number, include a roundhouse, 96 × 425 ft., with an 80-ft. turn-table; a 1-story oil and store-house, 40 × 105 ft.; a 2-story yardmaster's office, 30 × 60 ft.; a 1-story machine shop, 60 × 254 ft.; a trainmen's house, 2 stories high, 34 × 85 ft.; a transfer shed, 20 × 48 ft.; a coal trestle, 857 ft. long; an ash pit, 48 × 100 ft., and a 1-story office, 16 × 166 ft. The buildings will be of brick and reinforced concrete, and will cost $588,000. The land cost an additional $100,000, and with other buildings still to be erected the total cost will be at least $1,000,000.

BEAUMONT, SOUR LAKE & WESTERN.—A sub-contract has been let to KING & GALVIN, of Houston, Tex., for grading 12 miles of this road, east from Houston. The contract calls for the completion of the work by Sept. 15. SUNDERMAN & DOLSON also have a sub-contract and are building from Sour Lake west towards Houston. The line is being extended 65 miles from Sour Lake, the present western terminus of the road, to connect at Houston with the proposed extension of the Trinity & Brazos Valley. B. B. Gordon is Ch. Engr., at Beaumont, Tex.

BERKELEY R. R.—This property, consisting of a lumber road, eleven miles long, extending from Chicora to Monks Corners, S. C., was sold under foreclosure on July 23 and purchased for $10,000 by the Burton Lumber Co., of Charleston. The property of the Carolina Land & Lumber Co. was sold to the same purchaser. Noted on July 19.

BUFFALO, LAKE ERIE & NIAGARA.—We are officially advised that contracts will be let for building this line as soon as certificate is granted by the Board of R. R. Comrs. of State of New York. As previously noted in Engineering News, this company proposes to build a connecting railroad around and just outside of the city of Buffalo, and to Tonawanda, passing through West Seneca, Hamburg, Cheektowaga, Amherst and Tonawanda; total length about 36 miles. The work will include about 3,000,000 cu. yds. of embankment made from barrow pits, and 500,000 cu. yds. of cuts; double track to be laid and ballasted, bridges built on concrete foundations, and the necessary terminals, tracks and buildings. There is also to be a breakwater 4,800 ft. long, and a harbor, dock and slips. The maximum grades will be 1.14%, and maximum curves of 10%, though mostly 6%. The bridge work includes 14 railroad bridges, three for use of electric cars, and 37 highway bridges. There will be five smaller bridges over streams, 18 farm bridges, 13 culverts, two pile trestles and one frame trestle. Surveys are made. Edward Michael, 618 Mooney Brisbane Bldg., is Pres.; C. C. Conkling, 798 Ellicott Ave., is Ch. Engr.

CANADIAN PACIFIC.—A contract has been given by this company to the TORONTO CONSTRUCTION CO., of Toronto, Ont., for the construction of a branch, to be called the Georgian Bay & Seaboard Ry., from Victoria Harbor, Ont., on Georgian Bay, southeast to Peterborough, via Orillia, a distance of about 96 miles. Work is to be begun shortly.

CANADA CENTRAL.—Bids are being invited for building this company's railway from Sudbury, Ont., to Little Current, about 60 miles. F. H. Clergue is Pres., at Sault Ste. Marie, Ont. Surveys are made and right-of-way obtained. Work will be in light soil and heavy rock, with number of bridges.

CHARLOTTE HARBOR & NORTHERN.—We are officially informed that the name of the Alafia, Manatee & Gulf Coast Ry. Co. has been changed to the Charlotte Harbor & Northern Ry. This change is now in effect and all business will hereafter be done in the name of the new company, which has taken over the line of road formerly owned and operated by the Peace River Phosphate Mining Co. for handling its phosphate rock between Brownville and Liverpool, Fla. It is building an extension from Fort Ogden to Boca Grande Pass, on Charlotte Harbor, 38 miles. It is expected that the new line will be completed and open for traffic in January, 1907. Boca Grande Pass is the main entrance from the Gulf of Mexico into Charlotte Harbor, where the largest vessels can enter and land at the docks, with a depth of 30 ft. of water. Ten miles of track have been laid from Boca Grande north, and preparations are being made for the construction of extensive docks at that point. The officers are: James M. Gifford, Pres., 5 Nassau St., New York; Peter B. Bradley, Vice-Pres., 92 State St., Boston, Mass.; L. M. Fouts, Second Vice-Pres. and Gen. Mgr., 35 East Bay St., Jacksonville, Fla.; Geo. S. Bruce, Ch. Engr; C. B. McCall, Supt.; F. B. Perkins, Audr., all of Hull, Fla., and John P. Wall, Counsel, at Tampa, Fla.

DAKOTA MIDLAND.—L. R. Giddings, Pres., 718 Guaranty Bldg., Minneapolis, Minn., states that this company, recently chartered, proposes to build a railroad from Sioux City, Iowa, to the line of Campbell County, S. Dak., a distance of 325 miles. Surveys are in progress and right-of-way has been secured for 100 miles of the line. It is expected to begin construction about Sept. 1. Noted on July 19. J. L. Frederickson is Ch. Engr., at Minneapolis, Minn.

DELAWARE, LACKAWANNA & WESTERN.—It is reported that preliminary surveys have been completed for a double-track cut-off from a point near Hopatcong, N. J., to Delaware Water Gap. There will be no tunnels and the new line will effect a saving of ten or eleven miles over the present route.

MISSOURI RIVER & GULF.—A charter has been granted to this company in Kansas to build a railroad from Kansas City through eastern Kansas and Indian Territory to Denison, Tex., with branch lines running through Shreveport, La., and through Cherokee County to Joplin, Mo. The air line from Kansas City to Denison will be 420 miles long. The company is capitalized at $1,000,000. The directors are L. F. Swinney, of Kansas City, Mo.; C. K. Wells, A. L. Berg, C. N. Prouty, K. L. Browne, B. R. Lane and Winfield Freeman, of Kansas City, Kans. It is said the new company is subsidiary to the Harriman interests, according to the New York "Tribune." It was announced three months ago that they were considering the building of an air line from Topeka to Denison. The new line will link the Union Pacific and the Southern Pacific systems, both Harriman lines, by a route which will give the Missouri Valley a new and short route to the Gulf. Mr. Swinney has had more or less connection with the Harriman interests.

MONETT & SOUTHWESTERN.—This company, with offices in the Commonwealth Trust Bldg., St. Louis, Mo., is in the market for a construction train, private car and about 40 track miles or less of 80 to 90-lb. rails; new preferred, but might use very good relayers.

NORTH CAROLINA.—C. F. Wilkinson, 226 Candler Bldg., Atlanta, Ga., announces for sale a lumber plant and railroad in eastern North Carolina, both doing good business. Two locomotives, twelve miles steel track, 15,000,000 ft. long leaf pine, with additional timber in sight. Splendid plant. Price, $75,000.

OHIO RIVER & WESTERN.—S. L. Mooney, Pres., Woodsfield, Ohio, is quoted as saying that this road, part of which is now 3-ft. gage, is to be made standard gage throughout. The road is 112 miles long. J. K. Geddes is Ch. Engr., at Zanesville, Ohio.

PENNSYLVANIA R. R.—The New York "Journal of Commerce" states that this company will build a freight terminus at Buffalo, N. Y., "which will be five miles in length. The construction work will be commenced as soon as the plans can be completed. The new line will cross the Lake Shore, the Erie, the Buffalo, Rochester & Pittsburg, the Nickel Plate and the Chautauqua division of the Pennsylvania, connecting the Pittsburg line with the Western New York & Pennsylvania system. The cost of the line is estimated at $500,000. The line will cross all other roads overhead and will run parallel to the New York Central's freight terminal."

SHREVEPORT & NORTHEASTERN.—City of Shreveport, La., has voted a tax of $75,000 for this railway company, to build its line to this place, and to maintain its shops and main offices there.

SCHENECTADY & MARGARETVILLE.—This company has been incorporated in New York to operate a railroad, 90 miles long, from Margaretville, Delaware County, to Schenectady, with two branches from Schenectady to Scotia and from Schenectady to Rotterdam Junction. Capital, $1,000,000. Directors: F. J. Whan, G. M. Turner, New York; J. H. Richards, Cranford, N. J.; A. S. Brown, Brooklyn, N. Y.

SOUTHERN PACIFIC.—It is reported that contract has been given by this company to SHOTUCK & DESMOND, of Phoenix, Ariz., for construction of an 11-mile branch line.

SOUTH & WESTERN.—This company has laid track on its extension from Spruce Pine to Altapass, N. C., four miles. An official report states that it is expected to have the line completed from Fink, Va., to Rutherfordton, N. C., 207 miles, by Jan. 1, 1908.

TEXAS.—The citizens of Robert Lee, Coke County, Tex., are reported to have agreed to raise a bonus of $75,000 to $100,000 for any one of three or four railroads which will extend to that place without delay.

Anderson Bros., of Terry, Tex., are going to build immediately 2½ miles of standard gage tramroad, and later on it is expected to build about three miles more, all to develop timber land.

THOMASVILLE, SPARKS & NORTHEASTERN.—This company is being formed to build a railroad from Thomasville, Ga., through Pavo, to Sparks, 40 miles. E. M. Smith, of Thomasville, and Dr. K. Frank Harris, of Pavo, Ga., are two of the promoters, it is reported.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

DANBURY, CONN.—The Danbury & Bethel St. Ry. Co. has begun a scheme of improvements which will involve the ultimate expenditure of about $100,000, it is said. A blanket mortgage has been given to the American Loan & Trust Co., of Boston, to secure the railway company's bonds. The mortgage covers the company's previous issue of $200,000 and the new issue of $100,000. The proceeds from the sale will be applied to the execution of the improvement plans, which include double-tracking operations, extensions and the enlargement of equipment. John Walters is Ch. Engr., at Danbury.

PEEKSKILL, N. Y.—It is announced that the Putnam & Westchester Traction Co. will let contracts and begin work probably next month. The route is from Main St., Peekskill, N. Y., northeast to Oregon (Putnam Valley post-office), in Putnam County, 3¾ miles. The road does not cross the county line, but is to be wholly in Westchester County. It is to be operated by the Peekskill Lighting & Railroad Co. J. S. Ladd is Pres. and I. W. Reynolds, Ch. Engr., Peekskill, N. Y. Noted on July 19.

BROOK HAVEN, N. Y.—The Cross Island Traction Co has been incorporated in New York with $500,000 capital, to build an electric line from Brook Haven, Long Island, to West Sayville, 42 miles. William Moyer, L. Baldwin and Paul T. Brady, of New York, are directors.

EASTON, PA.—The Common Council has extended the time for the completion of the Delaware St. Ry. line to Aug. 1, 1907. The old contract time was Aug. 1, 1906.

CHESTERTOWN, MD.—D. E. BAXTER & CO., Inc., 27 William St., New York, we are officially informed, have contract to build the Kent Traction Co.'s line from Chestertown to Fairlee and Tolchester Beach, ten miles. A branch line, eight miles long, will be built from Fairlee to Rock Hall. G. H. Brantingham is Gen. Mgr. of Construction, at 27 William St., for the contracting firm.

JENNINGS, MD.—The Pennsylvania & Maryland Street Ry. Co. has been incorporated to build a line 30 miles long in Somerset County, Pa., and possibly in Maryland, connecting Berlin, Brothers Valley, Garrett, Myersdale and Salisbury. The officers are C. H. Jennings, Jennings, Md., Pres.; George W. Kipp, Mial E. Lilly, Towanda, Pa.; D. H. Clark, Punxsutawney, Pa.; H. H. Maust, John M. Wright and J. L. Barchus, Elk Lick, Pa.

CHARLESTON, W. VA.—The Kanawha Valley Traction Co., of which W. C. Sproul, of Chester, Pa., is Pres., has bought the Camden Interstate Traction Co., operating 30 miles of electric railway from Huntington, W. Va., to Ashland, Ky., it is reported, and will build a line 45 or 50 miles long from Charleston to Huntington. J. M. Camden, of Parkersburg, W. Va.; John Graham, of Huntington, W. Va., and others are interested. E. W. Alexander, Charleston, is Gen. Mgr. of the Kanawha Valley Co.

CHARLESTON, S. C.—We are officially advised that D. E. BAXTER & CO., Inc., 27 William St., New York, have contract for building the Charleston & Summerville Ry. It will extend from this city to the suburb of Summerville, 27½ miles.

JACKSON, TENN.—We are officially informed that the Jackson Ry. & Light Co. has awarded contract to J. McWILLIAMS & CO., of Louisville, Ky., for about eleven miles of new and reconstruction work within the city, including new power plant. Survey has been made. Harry Weissinger is Pres., at Louisville; C. D. Lehmkuhl, Jackson, is Ch. Engr.; S. S. Bush, Louisville, is Gen. Mgr.

LOUISVILLE, KY.—The Louisville, New Albany, French Lick & West Baden Ry. Co., which proposes to construct an electric line from New Albany to French Lick and West Baden Springs, to purchase the electric line equipment of the Kentucky & Indiana Bridge Co. and to extend the electric line of the bridge company in Louisville, has applied to the New Albany Board of Public Works for a right-of-way over a number of the streets of that city. The company is composed of Louisville, New Albany and Southern Indiana capitalists, and, it is claimed, is backed by ample capital to carry out the purposes for which it was organized.

BARBERTON, OHIO.—The name of the Barberton, Wadsworth & Western Railway Co. has been changed to the Akron, Wadsworth & Western Railway Co. This is the new extension of the Northern Ohio Traction & Light Co.'s system. Work on the line to Wadsworth is progressing rapidly, and it will probably be placed in operation this fall. Next summer the line will be extended to Seville, where connection will be made with the Cleveland & Southwestern Traction Co.'s system for Mansfield and Columbus.

KENTON, OHIO.—The Kenton Commercial Club has elected E. S. Neely, J. W. Caine and F. L. Damon to look after Kenton's interests in the building of a (new interurban traction line from Lima to Marion via Kenton. A company is being [illegible] $100,000 capital, which will be [illegible] to $1,500,000. The promoter the line is W. H. Ogan, [illegible] George H. Ross, of Cleveland,

MANSFIELD, OHIO.—At a [illegible] of the County Commissioners [illegible] chise was granted the Cleveland Mansfield Traction Co. to build [illegible] line from the corporation line [illegible] to the Richland County line.

CLEVELAND, OHIO.—The Electric Ry. Co. is making [illegible] tions to commence construction [illegible] diately, it is said, on the new S[illegible] mont & Southern line from San[illegible] mont and Fostoria. The company [illegible] has opened an engineering office in Fremont, [illegible] of C. O. Lasley, of Toledo, [illegible] is now closing up the right-of-way [illegible] mont to Fostoria. A franchise [illegible] applied for in Sandusky for a line [illegible] fin Ave. to the West House. If [illegible] secures this grant it will abandon [illegible] tracks on Pearl and Market [illegible] over the shorter route mentioned [illegible] trance for the new line. F. J. [illegible] walk, Ohio, is Gen. Mgr.

DAYTON, OHIO.—J. L. Adams, Gen. Mgr. of the Western Division of the [illegible] lumbus & Eastern Ry. Co., states that one of the most important improvements to be made to the system will be the construction of the tracks of the Dayton & Northern and Dayton & Western lines, and the improving and double-tracking of the line between Dayton and Springfield, according to press report. The power station at Miamisburg is to be enlarged considerably.

INDIANAPOLIS, IND.—A contract for the grading of that part of the Indianapolis & Western Ry. Co.'s line between Greencastle and Brazil has been let to MACARTHUR BROS. CO., 217 Dearborn St., Chicago. The NATIONAL CONCRETE CO., of Indianapolis, will construct the concrete-steel arches, and M. M. DEPREES, of Indianapolis, will construct the concrete masonry abutments. Ties for the new road have been delivered, and the work will be pushed with all possible dispatch. The firm under contract to do the grading will have to remove about 425,000 cu. yds. of material, and the National Concrete Co. will have to construct a 400-ft. bridge over Walnut Creek. J. T. ADAMS, of Columbus, Ohio, has the contract for ballasting and laying track on this part of the line. W. Kesley Schoepf is Secy., Traction Bldg., Cincinnati, Ohio.

OWOSSO, MICH.—The Owosso & Pine Lake Ry. Co. has the right-of-way practically all secured for an electric line from Owosso to Pine Lake, connecting at that point with the Michigan United Railways Co. for Lansing. While the company has not been incorporated, the surveys and a great deal of the preliminary work have been done, and it is expected that the line will be built within a short time.

BENTON, HARBOR, MICH.—Work on the extension of the Benton Harbor-St. Joseph Ry. & Light Co. line from this town to Kalamazoo will be commenced this fall, according to J. M. McMichael, Pres. The line from here to Eau Claire will be running in August, it is said. Cars are now running as far as Tabor's resort, 12 miles from the city. The line will go from Eau Claire to Dowagiac.

EFFINGHAM, ILL.—The Effingham & Olney Interurban R. R. Co. has been incorporated to construct a line from Effingham southeasterly through the counties of Clay and Richland to Olney; principal office, Eberle, Ill. Capital stock, $2,500. Incorporators and first Board of Directors, Dr. R. S. Wishard, Daisy Wishard, G. M. Merry, Henry Richards, Eberle, Ill.; Theron Gould, Bible Grove, Ill.

HOOPESTOWN, ILL.—Bids are asked by the Inter-State Traction Co. until 6 p. m., Aug. 18, for the construction of 25½ miles of grading, ties and track, with all bridges and culverts complete, for the traction railway from Hoopeston to Danville, Ill. Nathan Bond, Secy., Hoopeston. (Advertised Engineering News.)

ORR, IND. T.—The Red River Valley Power & Traction Co. proposes to build an electric railway from a connection with the Rock Island line near Waurika, Okla., to a point on the Santa Fe near Ardmore, Ind. T. Survey is to begin soon. The directors are Isaac Robberts, Orr, Ind. T., Pres.; T. O. Perry, Vice-Pres.; C. C. Galloway, Secy.-Treas. both of Ardmore, Ind. T.; Dr. J. Ashley, of Orr, and Robert E. Thompson, of Leon.

McCRORY, ARK.—The McCrory Transfer & Tramway Co. has been organized to build a tram line from McCrory to Jelks, Ark. The directors are Clayton Halley, Pres.; E. L. Hamilton, Vice-Pres.; J. O. Crossett, Secy. and Treas.; A. B. Keating, R. M. Comer, H. Arnof and W. B. Kyle.

SAN DIEGO, CAL.—As a result of a recent meeting of the Chamber of Commerce of San Diego and of Escondido, H. K. Cravath was commissioned to solicit subscriptions to the extent of $150,000 for stock in the proposed road from Escondido to San Diego. As soon as this amount is raised grading on the line will begin.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—The Portland Electric Light Co. has bought the Hargreaves Woolen Mill property at West Buxton, and will soon commence the construction of a power station for the transmission of electricity for lighting and power purposes in Portland and vicinity.

CALAIS, ME.—The Calais St. R. R. Co. has secured control of the water privilege at Salmon Falls, owned by the Washington County R. R., and will erect a large power station to furnish electric power for commercial purposes.

FITCHBURG, MASS.—The ABBOTT-GAMBLE CO., 32 Broadway, New York City, have been awarded the contract for the extension of the underground system for the Fitchburg Gas & Electric Lighting Co.

ORANGE, MASS.—The Orange Electric Light Co. is planning extensive improvements to its plant, it is said. A. W. Hubbard is Secy.

TEMPLETON, MASS.—At a special town meeting, held on July 25, the citizens voted to appropriate the sum of $6,500 in addition to the $15,000 previously appropriated for the construction of a plant for the distribution of electricity in the town of Templeton. Work will commence at once on installing the plant. The town will be wired for street and commercial lighting.

WORCESTER, MASS.—Plans have been prepared by Thompson & Gallagher for an electric lighting and power plant for the Denholm & McKay Co. Four electric generators, four A. engines and a 450-HP. Stuart boiler will be installed. Plans for the powerhouse are being prepared by Frost, Briggs & Chamberlain.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Aug. 9, for wiring and lighting the Soldiers' and Sailors' Arch, Prospect Park. Bids are also asked until the same time for framing of combination gas and electric lighting fixtures in Parade Ground Building, Prospect Park, Boro. of Brooklyn. Moses Herrman, Pres., Dept. of Parks.

POUGHKEEPSIE, N. Y.—The State Commission on Gas and Electricity is considering the application of the Poughkeepsie Light, Heat & Power Co. for permission to issue $150,000 bonds for extending its plant. G. A. Voorhees, Supt.

ROCHESTER, N. Y.—Bids are asked until Aug. 23, by the Board of Contract and Supply, for lighting the city streets for a period of 1, 2 and 5 years, beginning July 1, 1907. Frank X. Pifer, Clk.

UTICA, N. Y.—The Hudson River Electric Power Co. has applied to the City Council for a franchise to distribute heat, light and power in the city of Utica.

AUBURN, N. Y.—The Auburn Light, Heat & Power Co. has lately purchased the site of the Niagara power station on which work will be commenced in about two weeks. The building will be 85 ft. long by 50 ft. and modern in its equipment. J. S. Wise, Jr., is Supt.; E. G. Preston is Ch. Engr.

PITTSBURG, PA.—The Pittsburg Railways Co. will install three 7,500-HP. turbo generators and one 5,000-HP. turbo generator at its power plant on Brunots Island just as soon as the machinery can be constructed. Contracts have been let to the WESTINGHOUSE CO. for the new machinery, and the work on them has already been started. The new generators will furnish electricity not only for the street railway lines, but for power and lighting circuits.

ALLENTOWN, PA.—The Lehigh Valley Transit Co. has awarded the contract for the erection of sub-power plants at Coopersburg and Hecktown to G. H. HARDEN at Catasauqua and Schnecksville to M. T. J. OCHS. W. S. Hall, Mgr.

HARRISBURG, PA.—The Harrisburg Light, Heat & Power Co. is having plans prepared for an addition to their power plant. It is to be a 1-story addition and new equipment will be installed. C. H. Kinter, Mgr.

WILMINGTON, DEL.—The Building Inspector has issued a permit to ROYDEHOUSE, AYRE & CO., Fidelity Bldg., Philadelphia, for the erection of a power-house for the P., B. & W. Railroad Co., adjoining the new office building, at a cost of $16,000. The new plant is to furnish power for the passenger station and office building. It is to be on the opposite side of the old machine shop.

CHESTERTOWN, MD.—It is reported that D. C. Baxter & Co., Engrs., New York City, will commence plans at once for the power plant to be erected by the Kent Traction Co. The plant is to cost $75,000.

ROANOKE RAPIDS, N. C.—The Roanoke Navigation & Water Power Co. contemplates an expenditure of about $100,000 in improvements to its system. M. C. Cooper is Gen. Mgr. Joseph H. Wallace, Temple Court Bldg., New York, N. Y., is the engineer in charge of the work.

YORKVILLE, S. C.—J. J. Keller & Co. are reported to be considering the installation of electricity for power purposes at their lumber mill, to replace steam power.

MONTGOMERY, ALA.—R. Whiting, Secy. Citizens' Light, Heat & Power Co., writes that contracts for additional equipment have been let to the WESTINGHOUSE ELEC. MFG. CO., and the HARRISBURG FOUNDRY & MACHINE CO., to cost about $25,000.

SEVIERVILLE, TENN.—W. T. Walker and M. B. McMaban contemplate building electric plant two miles from Sevierville to be operated by water power, and the electricity to be transmitted to Sevierville for lighting the town.

CLEVELAND, TENN.—A company has been formed at Cleveland, Tenn., with New York capital, for the purpose of developing electrical energy from the Hiawassee River. The intention is to locate the dam for power development at the "Narrows" on the Hiawassee River, in Polk County. It is stated by the projectors that they intend to distribute electrical energy in Knoxville, Cleveland and other places.

COVINGTON, KY.—Plans and specifications for a municipal electric light plant prepared by Owen Ford, Security Bldg., St. Louis, Mo., have been placed before Council and referred to the Committee of the Whole. The plant complete and ready for operation, according to Mr. Ford's estimate, will cost $161,570. The plans provide for one 200-HP. boiler with equipment, $8,200; heater pump and pipe work, $2,700; two cross compound Corliss noncondensing engines, each 520 HP., $16,800; generators, switchboard and station electrical work, $14,400; 400 arc lamps, 2,000 c. p. each; 150 incandescent lamps, 32 or 40 c. p.; six 100-light station transformers, marble switchboard, instruments, appliance, etc., $15,600; poles, lines and wiring system and labor in constructing same, $30,400; transformers and connections for interior lighting, $1,670; station building and concrete wall at back of lock, brick, boiler, power and office storehouses, grading and draining lot, $12,600; engineering incidentals and miscellaneous expenses and interest on money during construction of plant, $4,500.

OXFORD, OHIO.—Bids are asked until Aug. 16 by John W. H. Herron, Pres., for an electric light plant to be erected at Miami University.

CINCINNATI, OHIO.—The contract for the 6-story concrete power building which is to be erected at Sixth, New and Culver Sts., has been awarded to SAMUEL HANNAFORD & SONS. The building is to cost about $750,000.

EVANSVILLE, IND.—Bids are asked by the Commissioners of the Southern Indiana Hospital for the Insane, at Room 81, State House, Indianapolis, Ind., until noon, Aug. 21, for heating and power equipment for the hospital.

CHICAGO, ILL.—Bids are asked until Sept. 12 for constructing a transformer sub-station. Robert R. McCormick, Pres. Bd. of Trustees, Sanitary District of Chicago.

CHICAGO, ILL.—Bids are asked until Aug. 17 by William L. O'Connell, Comr. Pub. Wks., for furnishing and erecting in the 14th St. pumping station a direct connected automatic cut-off engine and a 35-KW. direct-current generator.

Plans for the construction of a $300,000 power plant for the Latrobe branch of the Railway Steel Springs Co. are being prepared. The main building will be 225 x 71 ft. Work will be started at once.

EDWARDSVILLE, ILL.—It is announced that $100,000 will be spent for improvements to the McKinley syndicate's power house in Edwardsville. The plant will be largely increased to make it an auxiliary sub-station for the running of interurban lines.

KILBOURN, WIS.—The Southern Missouri Power Co. will spend about $90,000 in constructing its dam, power plant and transmission line at Kilbourn. Most of the work will be let under private contract. Daniel A. Mead is Ch. Engr.

DES MOINES, IOWA.—The contract for the lighting fixtures for the new court-house was awarded to the DAVID J. BRAUN MFG. CO., of Chicago, for $10,582.

ST. PAUL, MINN.—The Dwyer Plumbing & Heating Co., St. Paul, was lowest bidder on a contract for heating the St. Paul, Minn., Post Office and Government Building. Its bid was $4,059.

BELLEPLAINE, MINN.—Local capital will install an electric lighting plant for the Borough of Belleplaine. A company will be incorporated with a capital stock of $10,000.

OTTAWA, KANS.—The contract for rebuilding the municipal water and light plants has been awarded to R. W. STOOKEY, of Belleville, Ill., and to the ELECTRIC & STEAM ENG. CO., of St. Louis.

CLAY CENTER, KANS.—Bids are asked by T. C. Ryan, City Clk., until 9 a. m., Aug. 15, for equipping and installing a complete electric lighting plant and lighting system, and for making certain improvements in the water-works plant in this city. The W. K. Palmer Co., 718 Dwight Bldg., Kansas City, Mo., is Consult. Engr. The proposals are to cover the following steam or gas items: Water-works pumps, steel stack and breeching, three 66 ft. x 18 ins. tubular boilers, two steam engines, 120 and 200 HP.; steam piping, valves and covering; steam specialties and heater, two A. C. generators with exciters and switchboard, pole line material and arc apparatus, etc.; installing machinery and erecting pole line, gas producer plant.

ALMA, NEBR.—See under Water-Works and Irrigation.

BUFORD, N. DAK.—See under Water-works and Irrigation.

DURANGO, COLO.—The franchise for electric lighting was given to TOM LOFTUS and partners. The company proposes to erect a $25,000 plant.

SPOKANE, WASH.—Plans have been approved for the construction of the proposed plant of the People's Gas Co., which will necessitate the expenditure of about $500,000.

PORTLAND, ORE.—The contract for lighting and heating the 12-story Wells-Fargo Bldg. has been let to WELLS & CO. a New York City plumbing firm. The cost of the work will be in the neighborhood of $60,000.

SILVER CITY, IDAHO.—THE DAYTON GLOBE IRON WORKS CO. has been awarded the contract to install the machinery for a large power plant which is being erected by the Trade Dollar Consolidated Mining Co.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

MEDFORD, MASS.—We are officially advised that ROWE & PERINI, South Framingham, Mass., have secured contract at $20,823 for building reinforced concrete bridge at Auburn St., Mystic River Reservation, Medford. John R. Rablin is Engr., Metropolitan Park Comn., 14 Beacon St., Boston.

NEW YORK, N. Y.—We have been officially advised that the contract for building the arches, draw spans and approaches of Pelham Bridge over Eastchester Bay in Pelham Bay Park, Boro. of the Bronx, has been awarded by the Department of Bridges to the GODWIN CONSTRUCTION CO., 60 Wall St., New York. The work consists of six reinforced concrete arch spans, each 105 ft. long, between springing lines, and 52 ft. wide, and a Scherzer rolling lift bridge. The contract price is $257,325.

NEW BRUNSWICK, N. J.—In accordance with instructions from the War Department, Washington, D. C., the wooden piling structure south of the draw of the Amboy bridge will have to be torn away and replaced by steel. Authority has been given and bids will be asked for soon.

HOBOKEN, N. J.—Bids received for the proposed new steel bridge over the Hackensack River on the line of the Newark Turnpike were as follows: F. R. Long & Co., $310,000; F. M. Stillman & Co., $326,500; A. E. Sandford, $329,975; Joseph H. Cutley, $349,000. The estimate of Ralph D. Earl, Engr., was $300,000.

CARBONDALE, PA.—Bids are asked until 8 p. m., Aug. 20, by H. T. Williams, City Clk., for constructing reinforced concrete bridge over the Lackawanna River at Seventh Ave. (Advertised, Engineering News.)

DONORA, PA.—The Grand Juries of Washington and Westmoreland Counties have approved the project for a bridge across the Monongahela River, at Donora. It must be erected within the next year, according to the statement of the Washington County Commissioners. Its estimated cost is about $200,000.

WEST NEWTON, PA.—Bids for construction of a bridge across the Youghiogheny River, at West Newton, have been opened by the County Commissioners. Five companies competed, the bids being: American Bridge Co., Pittsburg, Pa., $76,000; Penn Bridge Co., Pittsburg, $67,473; Nelson Construction Co., Pittsburg, $75,166; Canton Bridge Co., Canton, Ohio, $79,800; Toledo-Massillon Bridge Co., Toledo, Ohio, $73,990. The bridge will be a steel structure and will replace the oldest wooden structure in Western Pennsylvania.

CAMERIDGE, MD.—Bids are asked until Aug. 21, by the County Commissioners, W. C. Anderson, Clk., for construction of a pile bridge across Cabin Creek, to be about 420 ft. long, with one span 20 ft. wide. All other spans 10 ft.

HINTON, W. VA.—The Foss Bridge Co. has been chartered to construct and operate a bridge near the mouth of Greenbrier River. The authorized capital is $25,000. The incorporators are C. L. Lilly, A. E. Miller, G. A. Miller, H. Ewart and James H. Miller.

WHEELING, W. VA.—Plans and specifications will be completed about the middle of August for the proposed bridge of the Bellaire, Benwood & Wheeling Bridge Co.; probable cost of bridge, $350,000. J. H. McCrady is Pres., Braddock, Pa.; R. M. Gilleland, Vice-Pres., Wheeling; Albert Lucius, Engr., Potter Bldg., New York, N. Y.

MONTEZUMA, GA.—Plans have been prepared, and a contract will be let shortly by the Macon County Commissioners for a steel bridge over Beaver Creek.

TAMPA, FLA.—In connection with other improvements being made by the Seaboard Air Line Ry. Co., it will be necessary for the company to construct a viaduct on Washington St. It is proposed to build a steel viaduct 800 ft. long, including the approaches on each side, to cost $30,000. W. L. Seddon, Portsmouth, Va., is Ch. Engr.

APALACHICOLA, FLA.—B. H. HARDAWAY CO., of Columbus, Ga., has contract to complete the trestling and bridging on railroad for a distance of five miles from the west bank of the Apalachicola River through the marshes and creeks to the high ground on the east near Butcher Pen Landing. About $400,000 will be expended.

MELVILLE, LA.—KAHMANN & McMURRAY have contract for constructing bridge over the Abchafalaya River, twelve miles from Melville, for the Colorado Southern, New Orleans & Pacific R. R. B. B. Gordon, Ch. Engr., Beaumont, Texas.

CHATTANOOGA, TENN.—C. E. James is reported to be arranging to construct a viaduct on the extension of Broad St. and over the railroad yards and tracks to Cowart St. and thence on Alabama St. to the surface on Market St.

CINCINNATI, OHIO.—The Cleveland, Cincinnati, Chicago & St. Louis has submitted plans and specifications for a new steel bridge to be built over its tracks on West Fifth St.

CHILLICOTHE, OHIO.—We are officially informed that the County Commissioners will shortly let contracts for building several county buildings. B. H. Walker is County Surv.

WARSAW, OHIO.—Bids are asked by the County Commissioners, for constructing substructure and superstructure of a 175-ft. span bridge over the Wallunding River, near Warsaw. C. R. Randle is County Audr.; George J. Block is County Surv., Coshocton.

CINCINNATI, OHIO.—The following bids were received, July 30, by the Board of Public Service, M. J. Keefe, Clk., for constructing substructure of the Harrison Ave. viaduct: F. W. Folz & Co., Dayton St. and Freiman Ave., $63,834; Cleary Construction Co., $59,243; Henkel & Sullivan, Mercantile Library, $70,792; M. J. Cavanaugh, Elberon St. and Mt. Hope Ave., $64,902; Concrete Steel Co., Pittsburg, $64,542; Lewis & Minot, Newport, Ky., $54,559.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Aug. 18, by the Commissioners of Cuyahoga County, Julius C. Dorn, Clk., for constructing two concrete culverts and concrete abutments.

JACKSON, OHIO.—The Board of County Commissioners have awarded to WILLIAM VOGT & SON contract for building concrete culvert in Jackson Township.

MOUNT VERNON, IND.—Bids are asked until noon, Aug. 10, by the Commissioners of Posey County, for constructing reinforced concrete bridge culvert over Mill Creek; also, at 2 p. m., same day, bids will be received for steel bridge.

LEMONT, ILL.—We are officially advised that J. HINNMAN has secured contract, at $17,000, for constructing a bridge having seven 60-ft. spans, and a 20-ft. roadway, on Stevens St., Lemont. H. L. Emerson, 1311 Chamber of Commerce Bldg., Chicago, is Engr.

DECATUR, ILL.—The contract for an interurban bridge over the Sangamon River, east of Decatur, has been let to the DECATUR BRIDGE CO. The bridge work is 500 ft. in length, and the contract provides that the bridge shall be up and ready for operation by Oct. 15. The cost of the bridge to be constructed at that point will be $20,000. The Decatur Bridge Co. gets $9,000 for what it does. The concrete work is to go in on a foundation of piling, and this will cost $10,000 more. Incidentals will easily add another $1,000.

DES MOINES, IOWA.—The Newton & Northwestern R. R. Co. has awarded contract for the superstructure of a $30,000 bridge across the Des Moines River to the PENNSYLVANIA STEEL CO., and the contract provides for the completion of the structure by Nov. 1. The MARSH BRIDGE CO. has the contract for the foundations for this bridge and for all of the pile bridges on the line. J. L. Blake is Gen. Mgr., Boone, Iowa.

WICHITA, KANS.—Bids are asked, until noon, Aug. 27, by C. N. Cartwright, County Clk., for building three steel or cement bridges in Sedgwick County.

CRESTON, S. DAK.—Bids are asked until Sept. 4, by Robert Rudesill, County Audr., for moving the steel bridge spanning Rapid River, near Creston Post Office, to another point.

OKLAHOMA CITY, OKLA.—About $1,057,000 will be expended by the Chicago, Rock Island & Pacific Ry. J. B. Berry, Chicago, Ill., Ch. Engr., for construction of steel bridges on concrete masonry, replacing wooden trestles on the lines of the Southwestern and Choctaw Districts.

OKLAHOMA, OKLA.—The Chicago, Rock Island & Pacific Ry. Co., I. B. Berry, Chicago, Ill., Ch. Engr., will construct steel bridges on the lines of the Southeastern and Choctaw districts. Cost, about $1,057,000.

NORTH YAKIMA, WASH.—Bids are asked until Aug. 11, by the County Commissioners of Yakima County, at North Yakima, for construction of two bridges across the Naches River. They will be 100-ft. combination spans.

TACOMA, WASH.—Bids are asked until 11 a. m., Aug. 17, by the Commissioners of Pierce County for a pile trestle bridge, 520 ft. in length, across Mashell River on the Mountain Canyon road, in Township 16 North, R. M. Howell is County Audr.

SALEM, ORE.—The City Council has awarded to the GENERAL CONSTRUCTION CO., contract, at $50,000, for building concrete bridge across Mill Creek, at Commercial St.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

DOVER, N. H.—The contract for the construction of the Masonic Building has been awarded to SUGDEN BROS., of Portsmouth, N. H. Hartwell, Richardson & Driver are the Archs.

BOSTON, MASS.—A new boathouse will be built at Harvard College. It is the gift of the late George W. Weld, Harvard '60. Peabody & Stearns, Exchange Bldg., are the Archs.

The Old South Congregational Church Society in Salem will build a new church to replace the one destroyed by fire in 1903. A committee has been appointed to secure plans. The building is to be of stone and brick.

MONSON, MASS.—The contract for the erection of a building for the Massachusetts Hospital for Epileptics has been awarded to ERNEST T. WILSON, of Natick, Mass. Bailey & Stevens, Archs., 93 Federal St., Boston, Mass.

SPRINGFIELD, MASS.—The contract for building a warehouse and office building for the Standard Oil Co., on Mill St., has been awarded to FOOTE & JONES.

ALBANY, N. Y.—The plans of Fuller & Pritchett, Archs., for the new orphan asylum have been accepted. The plans provide for six buildings of the "cottage" type, one of which will be used for administration. All the buildings will be constructed of concrete and will be fireproof. Contracts will be let shortly.

NEW YORK CITY, N. Y.—A 20-story office building will be erected next to the Consolidated Exchange Bldg.

A new office building will be erected at 45-47-49 John St., at the corner of Dutch St.

Plans for an 11-story building, at 27-35 West 24th St., have been filed in the Building Department by William H. Birkmire, Arch., for Andrew J. Kerwin.

There will be a new State educational and library building erected between Washington Ave. and E k St. Estimated cost, $4,000,000.

The Matheson Co. will erect an automobile garage of reinforced concrete on the premises, Nos. 1618-1620 Broadway. The building will be five stories high.

NEW YORK, N. Y.—Plans have been filed with the Building Department for the following buildings:

148 h St. and La Fontaine Ave., for six 5-story brick stores and tenements, 37.6 x 90 and 37.6 x 88; Stefano La Sala, of 2022 Fulton Ave., owner; Louis C. Maurer, of 22 East 21st St., Arch. Estimated cost, $240,000.

24th St., 27 to 35 West, for an 11-story brick loft building; Andrew J. Kerwin, of 13 West 24th St., owner; William H. Birkmire, Arch. Estimated cost, $500,000.

Ave. D, 30 and 32, for a 2-story brick building, 54 x 75; Hungarian Congregation Beth Hagodol (L. Rausner, Pres.), of 63 East Eighth St., owner; E. A. Meyers, Arch. Estimated cost, $50,000.

Third Ave. and 79th St., for three 6-story brick tenements, 40.2 x 71.4; Kleinfeld & Rothfeld, of 190 Bowery, owners; Stern & Morris, of 1,133 Broadway, Arch. Estimated cost, $100,000.

14th St., 275 ft. west of Sixth Ave., for a 12-story brick loft building, 50 x 95.3; S. Weil, of 196 Franklin St., owner; L. Korn, Arch. Estimated cost, $100,000.

Spring St., 341 to 347, for a 7-story brick storage building, 73.1 x 80; A. L. Olsen, of 1,518 Vyse Ave., owner; C. A. Frank, Arch. Estimated cost, $80,000.

163d St. and Third Ave., for a 6-story brick store and tenement, 40.8 x 90; John M. Linck, of 1047 Trinity Ave., owner; Michael J. Garvin, Arch. Estimated cost, $50,000.

Brown Place, from 135th to 136th St., for a 4-story brick school, 200 x 60 x 83; City,

owner; C. B. J. Snyder, Arch. Estimated cost, $230,000.

16th St., 430 to 446 West, for an 8-story brick factory, 210.3 × 92; National Biscuit Co., of 415 West 15th St., owner; A. G. Zimmermann, Arch. Estimated cost, $346,000.

155th St., 325 ft. west of Broadway, for a 3-story brick museum, 39.8 × 64.3; American Numismatic and Archaeological Society, owner; C. P. Huntington, Arch. Estimated cost, $55,000.

NEW YORK, N. Y.—Following are the two lowest bids received Aug. 6, by C. B. J. Snyder, Supt. of School Bldgs., for constructing public school buildings: No. 94, Peter Cleary, 235 Bainbridge St., Brooklyn, $288,800; P. J. Bremen & Son, 949 Broadway, $291,446. No. 152, R. E. Heningham, 1 Madison Ave., $278,500; P. Cleary, $279,894. No. 43, P. Gallagher, 1189 Broadway, $279,849; Thomas Cockerill & Son, 147 Columbus Ave., $283,000. No. 16, George Hildebrand, 38 Park Row, $232,244; P. Sullivan, 230 Grand St., $238,000. No. 39, Joseph Olhansen, 38 Park Row, $122,988; James MacArthur, 22 Ormond Pl., Brooklyn, $127,773. No. 3, James MacArthur, $60,677; P. Wolff & Son, Staten Island, $62,480.

CONNELLSVILLE, PA.—The bids for the new armory for Co. "D" were all too high, and it is likely the matter will go over until fall and new bids be asked for by the State Armory Board. The Fayette Lumber Co.'s bid was the lowest.

MAUCH CHUNK, PA.—The contract for erecting the new school at Coaldale has been awarded to ANDREW BRESLIN, of Summit Hill.

PHILADELPHIA, PA.—HENDERSON & CO., 1221 Arch St., have been awarded the contract for an addition to the factory of Wostenholm & Sons Co., Frankfort Ave. and Westmoreland St.

The Baltimore & Ohio R. R. Co. will spend $600,000 on the erection of a series of buildings for railroad use on the plot of ground from Jackson to Moore Sts. and from 36th St. to the Schuylkill River. The contract has been given to ROYDHOUSE, AREY & CO., Fidelity Bldg.

The Continental Title & Trust Co. will erect a 15-story building at 12th and Market Sts. The building is to cost $1,000,000.

Adolph Segal is to build a new theater on Broad St., near Girard Ave. The theater when completed will be known as the Majestic.

A new library building is to be erected at Swarthmore College. The building is to cost $50,000. It is a gift of Andrew Carnegie.

NORTHAMPTON, PA.—Bids are asked for the erection of a stock house, to be built by the Northampton Brewing Co.

ERIE, PA.—F. B. Meade, Arch., 1002 Garfield Bldg., Cleveland, Ohio, has prepared plans for a 4-story lodge building, 130 × 60 ft., for the B. P. O. Elks, Charles Constable, Chn. committee, Erie. Estimated cost, $100,000. Bids will be received by chairman.

EGYPT, PA.—The plans of J. L. Beatty, Arch., 146 Sixth St., Pittsburg, have been accepted for two new $40,000 buildings for the Assiat College, Egypt, by the college committee which is under the direction of the United Presbyterian Church. Five smaller buildings, costing $100,000, will be erected later.

LANCASTER, PA.—Newman & Harris, Archs., Land Title Bldg., Philadelphia, have been commissioned to prepare plans for the erection of a large building on the campus of Franklin and Marshall College, at Lancaster, to cost $100,000.

BALTIMORE, MD.—Louis Levi, Arch., 610 American Bldg., has prepared plans for Burk, Fried & Co., for a 6-story building to be erected at Baltimore St. and Center Market Space.

The Baltimore & Ohio R. R. Co. has awarded the contract to erect two new round houses to WELLS BROS. & CO., 410 Union Trust Bldg.

HAGERSTOWN, MD.—Harry E. Yessler, Arch., York, Pa., will prepare plans for a high school building at Hagerstown, the building to be 86 × 106 ft. It will contain two floors and a basement and will stand about 45 ft. high. Estimated cost, $70,000.

WASHINGTON, D. C.—Bids are being asked by the Union Trust Co. for the erection of a bank and office building at 15th and H Sts., N. W. It is to be an 8-story, 50 × 160 ft., brick and stone, and fireproof constructed building. Estimated cost, $500,000.

WASHINGTON, D. C.—The Potomac Realty Co. will erect a dwelling on 16th St., between N and O Sts, Northwest. Estimated cost of building, $150,000. Bruce, Price & de Sibour, 1135 Broadway, New York City, are Archs.

David Moore, 1328 New York Ave., N. W., represents clients who are negotiating for site on which to erect theater building to cost about $100,000. John B. McElfatrick & Son are Archs., 1402 Broadway, New York.

A. O. Bliss, 35 B St., N. W., will erect a 5-story apartment building at First and B Sts., N. W. The building is to be 123 × 47 ft., of stone and brick. A. Goener, Arch., Bliss Bldg. Estimated cost, $100,000.

The Carnegie Institution, Robert S. Woodward, Pres., Bond Bldg., 14th St. and New York Ave., N. W., will erect an administration building at a cost of $200,000, at 16th and P Sts., N. W.

SEWELLS POINT, VA.—R. C. Strehlow & Co., of Norfolk, Va., were the lowest bidders for the pure food building, the mines and metallurgy and the medical buildings on the Jamestown Exposition grounds. Their bid was $81,500.

WHEELING, W. VA.—Giesey & Faris, Masonic Temple, have completed plans for residence to be erected by John A. Howard. It is to be a 2½-story, 61 × 88 ft., brick and stone building. Estimated cost, $75,000.

Bids are asked by J. W. Vester & Son for the erection of a residence for John Oechsenkuhn. It is to be a 2½-story residence, 22 × 65 ft., and is to be built of brick.

WILMINGTON, N. C.—CENTRAL CAROLINA CONSTRUCTION CO., of Greensboro, N. C., has been awarded the contract to erect an apartment house for Thomas H. Wright, Wm. R. Kenan, Jr., and Walker Taylor, after plans by Robert L. Shape, 5 East 42d St., New York, N. Y. It is to be six stories, 107 × 66 ft, and is to cost $120,000. H. E. Bonitz will be the Supervising Arch.

WARRENTON, N. C.—Frank P. Milburn & Co., Home Life Building, Washington, D. C., have been selected to prepare plans for court-house to be erected by Warren County. As soon as plans are completed bids will be asked for its construction.

ST. AUGUSTINE, FLA.—LEWMAN & CO., of Jacksonville, Fla., have been awarded the contract for the new court house at St. Augustine, Fla.

WEST PALM BEACH, FLA.—Dade County State Bank is having plans prepared by Emil A. Ehrmann for the erection of a 2-story artificial stone building, 60 × 100 ft., on Clematis Ave., and a 2-story building, 36 × 37 ft., adjoining on Olive St.

PENSACOLA, FLA.—CHARLES H. TURNER has been awarded contract at $80,000 for building to be erected by the First National Bank.

MONTGOMERY, ALA.—C. L. Gay is going to erect a 10-story steel office building at Bibb and Commerce Sts.

NEW ORLEANS, LA.—Plans and specifications have been completed for clubhouse to be erected by the St. Bernard Athletic Club. Judge N. H. Nunez is Chn. of Bldg. Com.

CHATTANOOGA, TENN.—The Government will spend $110,000, it is reported, in enlarging the U. S. Post Office and Custom House, at Eleventh and A Sts.

ALTURAS, KY.—The County Board of Education will erect a high school here.

LOUISVILLE, KY.—Plans by McDonald & Dodd, 600 Equitable Bldg., have been adopted and contract will be let at once for building to be erected by the Louisville Realty Co.; 180 × 108 ft. Estimated cost, $300,000.

CINCINNATI, OHIO.—Elsner & Anderson, 136 Ingalls Bldg., have completed plans of an office building to be erected by Coyle & Richardson, at a cost of $75,000.

INDIANAPOLIS, IND.—A new city hall is to be erected here at a cost of $300,000.

BLOOMINGTON, IND.—Plans have been accepted for a new city hall and auditorium on the site of the Tomlinson Hall. Three million dollars of bonds have been issued to erect the building.

EVANSVILLE, IND.—Christ, Kanzler & Son were the lowest bidders for the contract to build the new hotel. The building is to be of brick and stone, of fireproof construction. F. J. Schlosser is Arch. Estimated cost, $150,000.

ESCANABA, MICH.—J. D. CHUBB, Arch., of Chicago, who prepared the plans, has the contract to build the new high school. Estimated cost, $100,000.

WAYNE, MICH.—A new high school will be built here at a cost of $75,000.

CHICAGO, ILL.—Dwight H. Perkins, Arch., has completed plans for the new Washburn school on 14th St.

L. M. Mitchell, Arch., has completed plans for an apartment house to be built on Grand Boulevard for William T. Woodley. Estimated cost, $50,000.

R. T. Newberry, Arch., The Temple, is preparing plans for a new theater to be erected west of the Auditorium Annex. It is reported that the Congress Hotel Co. will own the theater.

CHICAGO, ILL.—Bids are asked until 3 p. m., Aug. 21, by the Treasury Department, Washington, D. C., for changes in lift, southeast corner sidewalk, and the installation of automatic gates and a rolling door on the elevator in cashier's office, U. S. Post Office, Court House, etc., Chicago. James Knox Taylor, Supervis. Arch.

CHICAGO, ILL.—Two south-side field houses are to be built for the city parks at a cost of $75,000 each. One is to be built at Hardin Square and the other at 46th Place and Princeton Ave.

R. C. Berlin, Arch., 153 La Salle St., will prepare plans for a Y. M. C. A. building, to be erected at Division St. and Ashland Ave. To be five stories high, 100 × 130 ft., built of brick and stone. Estimated cost, $150,000.

William H. Pruyn, Jr., & Co., Archs., 4217 Berkeley Ave., have let the contracts for an apartment building about to be built at Prairie Ave. and 61st Pl., for George Bass, as follows: Masonry, WALTER WOODLEY, 672 East 63d Pl.; carpentry, O. OLSON, 707 Prairie Ave.; plumbing, W. H. WILLIAMS & BROS., 23 East 47th St.; heating, CHARLES H. SIMMONS, 218 La Salle St.; structural iron work, D. DUFFIN, 4001 Wentworth Ave., and cut stone, JOHN TAIT, 3401 La Salle St. It will be three stories high, 150 × 106 ft. Estimated cost, $90,000.

GREEN BAY, WIS.—The contract for erecting the new school house has been awarded to MICHAEL TILKENS, of Bellevue.

NAKONTA, IOWA.—Bids are asked by the Board of Education, until Aug. 17, for the erection of a public school building.

CEDAR RAPIDS, IOWA.—The contract for the erection of a large warehouse has been awarded to M. FORD.

DES MOINES, IOWA.—The Government is to erect a new post office here at a cost of $500,000.

JUNCTION CITY, IOWA.—Bids are being asked by J. B. Callin, Secy. Board of Trustees, until noon, Aug. 13, for the construction, plumbing, heating and electric wiring of a building for the George Smith Library. Plans, etc., at office of J. C. Holland & Squires, Archs., Topeka, Kans. Proposal blanks will be furnished by secretary. H. H. Ziegler, Chn. Bldg. Com.

ST. PAUL, MINN.—Bids are asked by Thomas Fitzpatrick, Chn. Bldg. Com., until noon, Aug. 11, for excavating and laying of masonry for new cathedral. Estimated cost, $3,000,000.

JACKSON, MINN.—Bids are asked by Buechner & Orth, 606 Manhattan Bldg., St. Paul, for the erection of Jackson County Court House. Estimated cost, $90,000.

FESSENDEN, N. DAK.—Bids are asked by the Clerk of Billadeau School District No. 2, until Aug. 10, for the erection of a school house.

CULBERTSON, MONT.—E. S. Evans will erect a double office building here.

ST. LOUIS, MO.—The contract for the erection of stores and flats, to occupy two blocks fronting on St. Ferdinand and Cottage Aves., has been let to the EVERETT P. MAULE CONSTRUCTION CO. Estimated cost of work is $175,000.

A permit for the construction of the 17-story office building on the east side of Fourth St., between Pine and Chestnut Sts., has been issued by the Building Department to the Income Leasehold Company. The plans for the building were filed about a month ago, but as no provision was made for a fire shaft issuance of a permit was delayed until they could be altered. Now two fire shafts are provided. One will be in the northern and one in the southern part of the building. Both can be entered only from balconies. Reinforced concrete is to be used in the shafts. Originally the building was to cost $1,165,000, but the alterations made to conform to the city ordinances has raised the cost to $1,500,000. The building will be 205 ft. high, the extreme limit under the ordinances. The size of the building will be 239 × 95 ft.

Compton Heights Baptist Church will build a new church and Sunday school building at a cost of $50,000.

Mauran, Russell & Garden, 1620 Chemical Bldg., have prepared plans for a freight house proposed by Robert Moore and Albert T. Perkins, Engrs. of the Municipal Bridge and Terminal Commissions, to be located at the foot of Washington Ave.

NEVADA, MO.—BEAGLE & DYE have contract to erect court house for Vernon County. R. G. Kirsch, of St. Louis, Mo., prepared the plans.

FAYETTEVILLE, ARK.—Congress has appropriated $50,000 for a public building to be erected at this place.

LITTLE ROCK, ARK.—The contract for the new city hall has been awarded to STANTON & COLLAMORE. The cost will be $237,000.

HOUSTON, TEX.—John S. Stewart is to erect an 8-story office building at Preston Ave. and Fannin St. Estimated cost, $100,000.

The Shearn Methodist Church will erect a new building to cost not less than $100,000. Address the pastor for information.

WETUMKA, IND. T.—Bids are asked until Aug. 27, by W. W. Pierce, Secy. of Board of Education, for the erection of a school building. W. R. Parsons & Son Co., Archs., Ninth St. and Garrison Ave., Fort Smith, Ark.

OKLAHOMA CITY, OKLA.—It is reported that the St. Louis & San Francisco Railroad, J. F. Hinckley, St. Louis, Mo., Ch. Engr., and the Chicago, Rock Island & Pacific Railway, J. B. Berry, Chicago, Ill., Ch. Engr., are completing arrangements for the erection of $300,000 union depot.

The Blaine County Commissioners have rejected all bids for the erection of court-house as being too high. A new architect will be selected and new plans prepared.

BOULDER, COLO.—BATES & ELLIOTT have been awarded the contract for the erection of a $50,000 library building for the State Normal School.

DENVER, COLO.—F. E. Edbrooke, Arch., is preparing plans for an apartment house to be erected by the Grant Building & Investment Co. Estimated cost $100,000.

VANCOUVER, WASH.—It is reported that the Great Northern and Northern Pacific R. R. Cos. are to join in building a hotel in Vancouver to cost $750,000, each paying half.

SEATTLE, WASH.—The contract for the construction of the Presbyterian church in Seattle has been awarded to ALEXANDER PEARSON, at $138,675. The heating and ventilating plant will be installed by the ADAMS & MOFFAT HEATING CO., for $10,685. The electrical work will be done by the AGUTTER-GRISWOLD CO., for $1,625, and the plumbing has been awarded to the RANTHMAN PLUMBING & HEATING CO., for $4,248.

CORVALLIS, ORE.—The contract for the erection of the Woman's Building, at the Agricultural College, has been let to H. SNOOK, of Salem, at a cost of $89,345.

NORTH BEND, ORE.—Bids are asked for the erection of a new city hall. Address Bldg. Com.

SAN FRANCISCO, CAL.—The contract for the construction of the building of the new immigration station on Angel Island was awarded yesterday to LITTLEFIELD & CO., of this city, who offered to do the work for $129,763. The work will be completed in about four months. The wharf for the landing at the station is to be built by the Atlantic, Gulf & Pacific Co.

SAN FRANCISCO, CAL.—Mrs. H. Winkle has awarded the contract for an apartment house to be constructed at Lyon and McAllister Sts. It is to be a 3-story building and will cost $50,000.

OAKLAND, CAL.—The contract for construction of a jail building has been awarded to the PACIFIC CONSTRUCTION CO. Their bid was $87,173.

BERKELEY, CAL.—William Harrison, of San Francisco, will erect a 4-story apartment house at Haste St. and Telegraph Ave. Estimated cost, $85,000.

VANCOUVER, B. C.—The contract for the construction of a 3-story warehouse for McLennon, McFeely & Co., was awarded to JOHN McLUCKIE. Contract price was $100,000.

WINNIPEG, MAN.—W. S. McDonald, of Pipestone, Man., will erect a 3-story hotel. It is to be a 125 × 35 ft. building, and is to cost $75,000.

Manitoba Gypsum Co. is to erect a gypsum mill at a cost of $80,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

WESTBOROUGH, MASS.—Bids are asked until 2 p. m., Aug. 18, by the Trustees of the Westborough Insane Hospital, George S. Adams, Supt., for laying c.-i. water pipes and appurtenances for the hospital. (Advertised Engineering News.)

NEW YORK, N. Y.—The bids received Aug. 1, by William B. Ellison, Comr. Water Supply, Gas and Electricity, for furnishing and constructing high pressure fire service, suction mains, and appurtenances for salt water for pumping stations at Gansevoort and West Sts. and at Oliver and South Sts., were: Borough Construction Co., 44 Court St., Brooklyn, $67,904; Continental Asphalt Paving Co., 42 Broadway, New York, $66,092.

LOCKPORT, N. Y.—It is reported that bids will be received about Sept. 23 for constructing proposed water supply system. Plans have been completed and permission has been granted by State Water Commission for supply from Niagara River. Probable cost of work, $500,000. Julius F. Frehsee is City Engr.

BUFFALO, N. Y.—Specifications for intake pier, inlet shaft, filtration shaft, tunnels, etc., noted in issue Aug. 2, are on file at office of Engineering News, New York. Bids are asked until Aug. 22.

RUNYUN (Oldbridge Post Office) N. J.—It is reported that twelve ground storage wells are to be added to the present water system at Runyon.

PHILADELPHIA, PA.—Bids are asked until noon, Aug. 22, by Thomas L. Hicks, Dir. Pub. Wks., for Contract No. 61, completing Torresdale intake. Cassius E. Gillette is Ch. Engr. Bureau of Filtration, 710 City Hall. (Advertised Engineering News.)

ALTOONA, PA.—WHITMER & COCCO, Philadelphia, have secured contract to construct a storage basin at Kittanning Point, at $425,555. Other bidders were: D. F. Rorke, Altoona, $430,770; T. H. Bowman, McKeesport, Pa., $456,286; Hinman-Henderson Co., Pittsburg, Pa., $485,136.

PHILADELPHIA, PA.—The only bid received Aug. 1 by Thomas L. Hicks, Dir. Dept. Pub. Wks., for constructing the Queen Lane filtration plant, was that of the United Water Improvement Co., at $1,000,000. The company agreed to construct a plant capable of filtering 60,000,000 gallons a day. Major Cassius E. Gillette is Ch. Engr. of Bureau of Filtration.

WASHINGTON, D. C.—It is reported that the HERSEY MFG. CO., 314 West Second St., Boston, Mass., has secured contract to furnish meters to the District for the ensuing fiscal year. An appropriation of $100,000 has been made by Congress for the purchase and installation of meters in residences and other buildings through the District.

TOCCOA, GA.—A gravity system, three miles long, and with a 200-ft. fall, is to be constructed at a cost of $35,000. Plans have been prepared by J. B. McCary. W. A. Matheson, is Chn. Water Com.

WAYCROSS, GA.—We are officially advised that about 20,000 ft. of pipe will be needed for the water-works system Waycross is about to install. J. A. Lott is Chn. Water Com.; A. M. Knight is Mayor.

PERRYSBURG, OHIO.—We have been officially advised that on July 28 RUMSEY & CO., Seneca Falls, N. Y., secured contract for constructing pumping machinery, at $4,088, for the Perrysburg water-works.

DAYTON, OHIO.—Bids are asked until Aug. 17, by the Board of Public Service, Dayton, for furnishing and laying about 33,200 ft. of from 6 to 20-in. pipe. T. M. Pexton is Pres.; Harry J. McDargh is Maintenance Engr. Dept. of Water. (Advertised Engineering News.)

FREMONT, OHIO.—The contract for 3,000,000-gallon pump has been awarded to the PLATT IRON WORKS CO. of Dayton, at $10,480. The above sum includes, also, the automatic valve.

MARION, IND.—At a meeting of the Board of Works, held recently, the extension of the water mains in North Marion was ordered and the superintendent was instructed to let the contract for the material to be used in the construction of the line.

FREMONT, MICH.—Bids are asked until Aug. 13 by the Water Commissioners, Harry Gerber, Chn., for constructing a system of water-works, requiring about 40 tons 4 to 10-in. c.-i. pipe, 2,000 lbs. special castings, 17 hydrants and laying 1¼ miles pipe.

CHICAGO, ILL.—Bids are asked until Aug. 10 for furnishing gate valves. William L. O'Connell is Dir. of Pub. Wks.

CHICAGO, ILL.—Bids are asked until 11 a. m., Aug. 25, by William L. O'Connell, Comr. Pub. Wks., for installing tube boilers in the Lawrence Ave. pumping station.

LA FARGE, WIS.—Bids are asked by George W. Chambers, Village Clk., until 7:30 p. m., Aug. 17, for laying 7,400 ft. of 6 and 8-in. c.-i. pipe, a 50,000-gallon concrete reservoir, a 20-HP. gasoline engine, a 300-gallon high lift centrifugal pump, two high lift hydraulic rams, and 3,500 ft. of 8, 10, 12 and 15-in. vitrified pipe sewers. W. G. Kirchoffer is Consult Engr.

MILWAUKEE, WIS.—We are officially advised that the following bids were received Aug. 1 for installing 20,000,000-gallon pumps at the North Point pumping station, Milwaukee, Wis.: Engine Co., Corliss, Wis., $66,960; Allis-Chalmers Co., Milwaukee, $84,700; Filer-Stowell Co., Milwaukee, $97,000; William Tod Co., Youngstown, Ohio, $84,200. Charles G. Poetsch is City Engr.

WALES, WIS.—Bids are asked until 10 a. m., Aug. 21, by M. J. Tappins, Secy. State Bd. of Control, Madison, Wis., for laying water pipe and constructing a 50,000-gallon reservoir and installing an electric or steam-driven deep well pump for the State Sanatorium, Wales. W. G. Kirchoffer is Engr., Madison. (Advertised, Engineering News.)

FAYETTE, IOWA.—EDWIN SMEDLEY, of Dubuque, has secured contract for extension to the Fayette water-works system, at $7,000.

ALMA, NEBR.—Bids are asked until Aug. 10, for constructing water-works and electric light plants, to cost about $20,000. J. A. Brown is City Clk., M. A. Earl of Muskogee, Ind., is Engr.-in-Charge.

BUFORD, N. DAK.—Bids are asked until 10 a. m., Sept. 10, at the office of the U. S. Reclamation Service, Williston, N. Dak., for installing three transformers of 300 KW. capacity and eight motor-driven pumping units, with necessary electrical apparatus and water pipes, in pumping stations near Buford. H. A. Storrs is Electrical Engr., Williston. Plans, specifications and bidding sheet are on file at office of Engineering News, New York, N. Y.

BUTTE, MONT.—The Butte Water Co. has awarded contract to the NORDBERG MFG. CO., at $15,000, for a Nordberg electrically driven pump of 2,000,000 gallons' capacity daily, to supply the demand for water on Butte Hill.

OTTAWA, KANS.—Contracts have been awarded by the City Council to R. W. STOOKEY, of Belleville, Ill., and to the ELECTRIC & STEAM ENGINEERING CO., of St. Louis, for rebuilding the Ottawa municipal water and light plants at a total of $48,981.

CLAY CENTER, KANS.—See under Light and Power Plants.

NAPA, CAL.—Bids are asked until Aug. 31, for constructing slip joint intake, 60,000 cu. yds. embankment, and 2,500 cu. yds. cement core wall, at the Napa State Hospital. M. A. Nurse is Engr.

MAGOG, QUE.—The sum of $8,000 will be expended on a pumping station and other improvements to the Magog water-works system, which will be taken over by the town.

STEELTON, ONT.—Bids are asked until Aug. 21 by J. Robinson, Town Clk., for the following contracts: a, Trenching and pipe laying, 37,000 ft.; c, water tower or stand pipe; d, c.-i. pipe and specials, about 600 tons; e, fire hydrants, valves, etc. Willis Chapman is Engr., 103 Bay St., Toronto.

FORT WILLIAM, ONT.—WILLIAM NEWMAN, of Regina, has been awarded contract for constructing a concrete lined reservoir at $16,000. H. S. Hancock, Jr., Town Engr.

FORT FRANCES, ONT.—Bids are asked until 8 p. m., Aug. 15, by W. H. Elliott, Town Clk., for constructing water-works and sewer systems. J. C. Barr is Mayor; John Galt, Toronto, is Ch. Engr.

WINNIPEG, MAN.—Bids are asked until 2.30 p. m., Aug. 27, by J. C. Gibson, Chn. Fire, Water and Light Com., for supplying a quantity of water pipe, specials, hydrants and gates for the city water-works. C. J. Brown is City Clk.; Col. H. N. Ruttan is City Engr. (Advertised, Engineering News.)

WINNIPEG, MAN.—Plans, specifications and bidding sheet for pumping machinery for wells, as advertised, are on file at office of Engineering News, New York. Bids are asked until Aug. 27. Col. H. N. Ruttan is City Engr.

CARMAN, MAN.—WATTER & M'KENZIE, of Winnipeg, have secured contract for constructing water-works and sewer systems at Carman. The contract price is $21,901.

DAWSON, YUKON.—The Klondyke Water Supply Co. is to establish a water system to cost about $6,000,000. The supply will be taken from the Klondyke River, a distance of nine miles.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

WESTFIELD, MASS.—Bids are asked until noon, Aug. 18, by the Selectmen of the Town of Westfield, for constructing sewers in Westfield. Oren E. Parks is Town Engr. (Advertised Engineering News.)

NEW YORK, N. Y.—Bids are asked until 11 a. m., Aug. 13, by Joseph Bermel, Pres. Boro. of Queens, for constructing sewers and appurtenances in portions of Dutch Kills and 50th Sts. Eighth, Thirteenth, First, Beebe and Hopkins Aves.

Bids are asked until 3 p. m., Aug. 14, by John F. Ahearn, Pres. Boro. of Manhattan, for constructing sewer and appurtenances in Scamble St., between Madison and Henry Sts.

BUFFALO, N. Y.—We are officially advised that on July 30, DARK & CO., 656 Main St., Buffalo, secured contract, at $109,000, for constructing 5½ and 4½-ft. sewer on Michigan St., between Hamburg Canal and Genesee St.

WASHINGTON, D. C.—Bids are asked until noon, Aug. 20, by the District Commissioners, Room 43, District Bldg., for constructing sewers. (Advertised Engineering News.)

PADUCAH, KY.—Bids are asked until 3 p. m., Aug. 25, by L. A. Washington, City Engr., for constructing about seven miles of combined sanitary and storm water sewers. (Advertised Engineering News.)

CONNEAUT, OHIO.—Bids are asked until Aug. 14, by the Board of Public Service, for constructing about 8,500 ft. sewer in Sewer District No. 4. The bids received July 30 for same work were rejected. T. F. Lininger is City Engr.

MARION, OHIO.—Bids are asked until noon, Aug. 15, by the Board of Public Service, William Fles, Clk., for constructing sanitary sewer and cellar drain and laterals on Jackson St., from Center St. to the right-of-way of the Cleveland, Cincinnati, Chicago & St. Louis Ry. Co., in Marion.

PAINESVILLE, OHIO.—The LAKE ERIE CONCRETE CO., of Painesville, has secured the contract to construct a 42-in. brick and 33-in. pipe storm sewer in South St., at $6,896.

CINCINNATI, OHIO.—Bids are asked until noon, Aug. 13, by the Board of Public Service, M. J. Keefe, Clk., for constructing 18-in. pipe sewers in Raville and McMillan Sts. Estimated cost, $5,490.

Bids are asked until noon, Aug. 23, by the Board of Public Service, for constructing 12, 18 and 24-in. pipe sewer in Carvel St., to cost about $4,265.

Bids are asked until noon, Aug. 27, by the Board of Public Service, for constructing a 12, 18 and 21-in. pipe sewer in Riddle Road. Estimated cost, $6,739.

The following bids were received Aug. 2, by the Board of Public Service for constructing sewer in Eastern Ave.: McCarthy Bros., 1331 Spring St., $22,387; N. Heffrin Construction Co., 811 Neave Bldg., $22,032; John E. Mahoney, 719 Whittier St., $25,315.

Martin & Notting were the lowest bidders, at $4,190, for constructing sewer in Stanley St., bid received Aug. 2.

WABASH, IND.—Bids are asked until 6 p. m., Aug. 13, by Fremont McLees, City Clk., for constructing sanitary sewer in Maple St., between Thorne and Comstock Sts.

PERU, IND.—The City Engineer has been instructed to prepare plans for construction of sewers in Eighth and Smith Sts., and for the paving of West Third St. and four blocks of Main St.

HARRISBURG, ILL.—B. S. CRAINE, of Marion, is reported to have secured the contract for installing a sewerage system here, at about $15,000.

OSCEOLA, ILL.—Bids are asked until Aug. 16 by the City Council for constructing a system of sewers and sewage purification tanks.

WALES, WIS.—Bids are asked until 10 a. m., Aug. 21, by M. J. Tappins, Secy. State Bd. of Control, Madison, Wis., for constructing sewers and sewage disposal plant for the State Sanatorium at Wales. (Advertised, Engineering News.)

CARROLL, IOWA.—We are officially advised that on Aug. 2, the C. B. SHERMAN CO., Boone, Iowa, secured contract to construct 10,200 ft. of from 8 to 18-in. sewer, at $11,940. The estimated cost was $24,000. A. Marston, Ames, Iowa, is Des. Engr.; H. H. Hanssen is City Engr.; George A. Hoffman is City Clk.

BRAINERD, MINN.—Bids are asked until Sept. 27 by F. E. Low, City Clk., for constructing sewers in Sewer District No. 1, consisting of 340 ft. 10-in., 2,225 ft. 8-in., and 2,195 ft. 6-in. sewer, 15 manholes, etc.

JUNCTION CITY, KANS.—At a recent meeting of the City Council it was decided to establish a sewer system in the business and residence portions of the city. The cost of the system will be between $50,000 and $60,000.

OMAHA, NEBR.—Bids are asked until Aug. 14, by Andrew Rosewater, City Engr., Room 406, City Hall, Omaha, for construction a portion of the South Omaha relief main sewer.

SOUTH OMAHA, NEBR.—Bids are asked until Aug. 20 for constructing (1) Mud Creek, (2) North Branch, N St. Gulch, (3) Jetter Creek, (4) N St. Gulch, (5) Highland Park, and (6) 21st St. sewers. We are officially advised that all the bids received July 30 for this work were rejected. The following are the lowest bids received July 30 for constructing the various sewers: (1) Dan Hannon, $160,230; (2) National Construction Co., $17,672; (3) Dan Hannon, $47,351; (4) Dan Hannon, $29,974; (5) James Jensen, $11,397; (6) National Construction Co., $8,651. The bids on every sewer except (4) N St. Gulch sewer, the lowest bid, exceeded the estimate of E. M. Rohrbough, City Engr.

BILLINGS, MONT.—Bids are asked until Aug. 21 for constructing pipe sewers in District No. 15. Probable cost, $33,000. Henry Gerharz, of Billings, is Engr.-in-Charge. I. D. Matheson is City Clk.

ST. LOUIS, MO.—Bids are asked until noon, Aug. 14, by the Board of Public Improvements, W. B. Dryden, Secy., for three sections of sewer in Gimblin Road Sewer District, and on section in Fillmore St. Sewer District.

Bids are asked until noon, Aug. 17, for constructing sewers in 13th St. Sewer District, Ninth St. Sewer District, and in Harlem Creek Sewer District. Andrew J. O'Reilly is Pres. Bd. Pub. Improvements.

WEATHERFORD, TEX. — HAMILTON BROS., of Fort Worth, Tex., it is reported, have contract at $20,000 for constructing proposed sewerage system in this town.

TERRELL, TEX.—John L. Terrell, Pres. Bd. Mgrs., writes us in reference to proposed sewers at the hospital, that "The North Texas Hospital for the Insane advertised for bids for a sewerage disposal plant for the institution, with a population, of patients and employes, of about 2,500. Bids were opened July 25, but all were rejected because they were beyond the appropriation made by the Legislature of the State. It is probable that a contract will be let for the material and the work done by our own help. About the only material to be purchased away from home will be vitrified sewer pipe of 14, 12, 8, 6 and 4 ins."

GUTHRIE, OKLA.—Bids are asked until Aug. 16 for constructing District Sewer No. 16. F. Selxas is City Clk.

DENVER, COLO.—Bids are asked until Aug. 11, for constructing North Denver Storm Sewer. It is estimated to cost $142,000. J. B. Hunter is City Engr.

SACRAMENTO, CAL.—Bids are asked until Aug. 13, by M. J. Desmond, City Clk., for constructing reinforced concrete trunk sewer in U St. George Randle is City Engr.

FORT FRANCES, ONT.—See under Water-works and Irrigation.

EDMONTON, ALTA.—REVILLON BROS., Edmonton, have been awarded contract for supplying cement to be used in constructing trunk sewers in this city. It is estimated that the sewers, when complete, will cost $200,000. George J. Kinnard is Secy.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

TAUNTON, MASS.—On July 30 L. C. Carchia submitted the lowest bid, at $4,106, for constructing section of highway in Berkley.

WATERBURY, CONN.—We are officially advised that the City Council of Waterbury has awarded the WARREN BROS. CO., 93 Federal St., Boston, Mass., an additional contract for 3,400 sq. yds. of bitulithic pavement.

NEW BRITAIN, CONN.—P. LUZIO, of Meriden, has been awarded contract for macadamizing East St., at $6,747.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Aug. 16, by the Department of Parks, Moses Herrman, Pres., for regulating, grading and paving with asphalt the roadways of Glenmore and Pennsylvania Aves., Boro. of Brooklyn.

Bids are asked until 11 a. m., Aug. 15, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, grading and paving certain streets, and for grading certain lots in Brooklyn.

Bids will be received until 11 a. m., Aug. 13, by Joseph Bermel, Pres. Boro. of Queens, for paving, repaving and laying sidewalks on portions of Hoffman Boulevard, College Point Causeway, Cypress, Woodward, Hillside, Metropolitan, Jamaica, Fifth, Seventh, Eighth, 16th, 13th, Eleventh, First and Graham Aves.

SCARSDALE, N. Y.—We have been officially advised that HINMAN & SPROUL, Newton, N. J., were, on Aug. 4, awarded contract for constructing two miles of macadam road.

ROCHESTER, N. Y.—The Board of Contract and Supply let the following contracts Aug. 1: For paving South Ave. with Medina block pavement, THOMAS HOLAHAN, at $84,747; for paving St. Paul and Russell Sts., WHITMORE, RAUBER & VICINUS, at $39,885 and $4,816 respectively. Edwin A. Fisher is City Engr.

FREDONIA, N. Y.—Bids are asked until Aug. 20, by the Village Trustees, for repaving with brick or asphalt on Central Ave. Jas. P. Morrisey, of Dunkirk, is the Engr.

MOUNT KISCO, N. Y.—Bids are asked until 4 p. m., Aug. 23, by the Town Board of Bedford, Joseph E. Merriam, Clk., in the Village of Mount Kisco, for macadamizing about five miles of road. (Advertised, Engineering News.)

TOMS RIVER, N. J.—SUTTON & CORSON, Ocean City, were on July 31 awarded contract by the Board of Chosen Freeholders for constructing the Berkeley Township road, at $26,264.

WESTFIELD, N. J.—Bids are asked until Sept. 4, by the Council, for laying about 36,500 sq. ft. of 2-in. bluestone flagging. A. W. Vars is Town Surv. (Advertised Engineering News.)

SALEM, N. J.—Bids are asked until 11 a. m., Aug. 27, by Capt. Louis F. Garrard, Q. M., at Fort DuPont, Delaware City, Del., for extending granolithic sidewalks at Fort Mott, N. J. (Advertised Engineering News.)

ASHLEY, PA.—Bids are asked until 7.30 p. m., Aug. 10, by the Ashley Borough Council, D. C. Frederick, Clk., for paving with vitrified fire clay a portion of Main St. Smith & Welles are Boro. Engrs.

PITTSBURG, PA.—The contract to construct two miles of Boston extension road in Elizabeth Township, also 2¼ miles in Forward Township, bids for which were received by the County Commissioners July 27, has been awarded to McLAUGHLIN CONTRACTING CO., 223 Fourth St., Pittsburg, at $53,568.

NORRISTOWN, PA.—We are officially advised that the Borough Council has decided to use Montello block for paving in Norristown. It is estimated that about 7,500 sq. yds. pavement will be laid under the supervision of S. C. Corson, Boro. Engr.

TAMAQUA, PA.—We are officially advised that the STANDARD BITULITHIC CO., 253 Broadway, New York, N. Y., has been awarded a contract for 13,000 sq. yds. of bitulithic pavement.

WASHINGTON, D. C.—Two bids were received Aug. 3 by the District Commissioners, Washington, for paving, as follows: Brennan Construction Co., 3056 K St., Washington, standard asphalt with 6-in. concrete base, $1.65; vitrified blocks with concrete base, $3.43; Cranford Paving Co., 2620 E St., N. W., Washington, asphalt with 7-in. base, $1.98; vitrified block, $1.35.

PHOEBUS, VA.—The Phoebus Town Council has awarded a contract to WILLIAM A. YOUNG, of Norfolk, Va., for paving four of its main business thoroughfares. The material to be used is Mack vitrified brick, and the paving will cost $38,200.

ALEXANDRIA, VA.—An ordinance has been passed by the City Council providing for paving Fairfax St. with vitrified brick from King to Cameron Sts.

WILMINGTON, N. C.—Bids are asked until Sept. 3, by the County Commissioners, Duncan McEachern, Chn., for constructing 12 miles of macadam road in Masonboro and Federal Point Townships.

PAINESVILLE, OHIO.—The contract for paving three streets with brick has been awarded to BALDWIN BROS. & GRAHAM, of Cleveland, at $31,342, and for paving with brick on Mentor Ave., to the HANLON CONSTRUCTION CO., of Cleveland, at $10,576.

CINCINNATI, OHIO.—Bids are asked until noon, Aug. 23, by the Board of Public Service, M. J. Keefe, Clk., for grading, setting granite curb and macadamizing the roadway of Erie Ave. Estimated cost, $14,457.

Bids are asked until noon, Aug. 27, by the Board of Public Service, for grading, setting granite curb and paving with brick Providence St. Estimated cost, $5,368.

The lowest bids received July 30 by the Board of Public Service, Cincinnati, for grading, curbing and paving the roadway of (1) Shilito St., and (2) Sherman Ave., were: (1) Henkel & Sullivan, 707 Mercantile Library, $19,885; (2) Barber Asphalt Paving Co., 1003 First National Bank Bldg., $11,316.

The lowest bid received Aug. 3 for grading, curbing and paving with brick Eastern Ave., was Kerchner Construction Co., Eighth St., $90,174; for same work on Beldare Ave., William Fogarty, $5,364.

COLUMBUS, OHIO.—It is reported that on July 24 the Board of Public Service, E. F. McGuire, Secy., awarded to the CLEVELAND TRINIDAD PAVING CO. contract for paving Broad St., at $122,000.

BELLEFONTAINE, OHIO.—Bids are asked until 1 p. m., Aug. 25, by the County Auditor, for grading, graveling and macadamizing Bristle Ridge Pike in Perry and Jefferson Townships. J. C. Wonders is County Surv.

BUCYRUS, OHIO.—Bids are asked until noon, Aug. 15, for paving, with brick, 5,000 sq. yds. on Prospect St. C. A. Guiss is City Engr. F. E. Donnenworth is City Clk.

TIFFIN, OHIO.—The contract for paving with brick a portion of Greenfield St., is reported to have been awarded to FRANK MORCHER, at $6,149.

CHILLICOTHE, OHIO.—We are officially informed that Jardine, Brewer & Tomlinson, Chillicothe, submitted the lowest bid, $20,402, on June 27, for paving High St. H. M. Redd is City Engr.

NEW BREMEN, OHIO.—Bids are asked until Aug. 20 for paving about 4,171 sq. yds. with brick, to cost about $5,000. C. W. Williamson is City Engr.; A. M. Steinebreg is City Clk.

ARCHBOLD, OHIO.—Bids are asked until Aug. 20 for paving certain streets in Archbold. The Riggs & Sherman Co., 613 The Nassy, Toledo, Ohio, are Engrs.

XENIA, OHIO.—Bids are asked by the Board of Public Service until Aug. 21, for furnishing materials and constructing about 19,400 sq. yds. paving of brick, asphalt, bitulithic or macadam.

CELINA, OHIO.—FRESHWATER BROS. have secured contract, at $56,000, for paving in Celina. The same firm has contract for 10,000 sq. yds. paving in New Brighton.

LAKEWOOD, OHIO.—Bids are asked until noon, Aug. 15, by B. M. Cook, Village Clk., for macadamizing various streets in Lakewood.

CLEVELAND, OHIO.—Bids are asked until noon, Aug. 16, by A. R. Callow, Secy. Bd. Pub. Service, for macadamizing the main drive of Gordon Park.

YOUNGSTOWN, OHIO.—The Board of Public Service has awarded the contract for paving Ford Ave. to ROCHFORD & COMISKEY, their bid for brick with stone curb being $26,934. F. M. Lillie is City Engr.

ARCHBOLD, OHIO.—Bids are asked until noon, Aug. 20, by O. W. Hill, Village Clk., for improving Holland St. The Riggs & Sherman Co., Toledo, Ohio, are Engrs. (Advertised, Engineering News.)

HUNTINGTON, IND.—Bids are asked until 7 p. m., Aug. 14, by the Common Council for grading Margaret and Byron Sts. Henry H. Wagoner is City Engr.

PORTLAND, IND.—Bids are asked until Aug. 15 for 13,000 sq. yds. of brick or block pavement on West Main St. Jay Griffith is Engr., Portland.

DETROIT, MICH.—We are officially advised that the CENTRAL BITULITHIC CO., of Detroit, has been awarded a contract for constructing 19,986 sq. yds. of acme asphalt pavement.

BELOIT, WIS.—Bids are asked until Sept. 1, by the Board of Public Works, R. D. Treadway, Chn., for paving with vitrified brick portions of several streets.

LACROSSE, WIS.—The contract for paving Caledonia St. has been awarded to WOOLEY & HANSON, at $20,567.

GREEN BAY, WIS.—Bids are asked until 10 a. m., Aug. 13, by the City Clerk, for grading and constructing a crushed stone roadway in Green Bay.

ST. PAUL, MINN.—The contract for paving Robert St., between the Robert St. bridge and the viaduct, has been let, by the Board of Public Works, J. S. Grade, Pres., to FIELDING & SHEPLEY, St. Paul, at $15,635.

Bids are asked until 2 p. m., Aug. 13, by the Board of Public Works, for grading a portion of Raymond Ave.

KIRKSVILLE, MO.—We are officially advised that a contract for 11,500 sq. yds. of bitulithic pavement has been awarded the GRANITE BITUMINOUS PAVING CO.

HOUSTON, TEX.—Bids are asked until Aug. 13 for the repaving of Main St., between McKinney and McGowen Aves. H. B. Rice is Mayor; I. Austin Miller is City Engr.

TULCA, IND. T.—W. H. STUCKEY has been awarded the contract for paving First St. The paving will extend from Boulder St. east to Detroit Ave., a distance of four blocks. The contract price was $19,318.

WALLA, WALLA, WASH.—The WARREN CONSTRUCTION CO. is reported to have secured the contract for paving the following streets: Rose, $2,458; Colville, $14,102; North Second, $22,570; First, $7,180; Second, $40,930; Third, $5,470, and Poplar, $20,496.

STEVENSON, WASH.—Bids are asked until 10 a. m., Aug. 21, by the Commissioners of Skamania County, A. Fleishauer, Audr., for grading Road No. 8 from the western boundary of the county to a point near Stevenson.

SALT LAKE CITY, UTAH.—We are officially advised that P. J. MORAN has been awarded contract for 2,800 sq. yds. asphalt pavement, at $4,800. L. C. Kelsey is City Engr.; F. R. Christensen is Clk. Bd. Pub. Wks.

HALIFAX, N. S.—The City Engineer has recommended the construction of permanent sidewalks on Hollis, Barrington, Pleasant, Bishop, Sackville and Prince Sts. and Bedford Row.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

QUINCY, MASS.—The assets of the Victor Metals Co., of East Braintree, Mass., consisting of foundry, land and buildings, fixtures, machinery, tools and utensils, office furniture, metals, finished products, etc., formulas for the manufacture of the Victor Metals, so-called, and the good will, business and rights of the Victor Metals Co., will be offered for sale at public auction on the premises of the company at East Braintree, Mass., on Aug. 16 at 11 a. m. For further information as to the assets or particulars of sale, apply to S. R. Wrightington, Receiver, 31 State St., Boston, Mass., or Newell D. Atwood, Auctioneer, 27 School St., Boston, Mass.

PAWTUCKET, R. I.—The contract for the large mill buildings to be erected by the Solway Mills Co., a merger of the Solway Manufacturing Co., of Westerly, R. I., and the Ingrahamville Dye Works, of this city, has been let to HUMES, CRUISE & SMILEY, of Providence.

PROVIDENCE, R. I.—The Warren Mfg. Co. will build a 3-story addition to their mill. The new structure will contain about 32,000 spindles.

DANIELSON, CONN. — The Industrial and Manufacturing Co. has acquired a tract of 100 acres of land here and will proceed to develop it for manufacturing purposes. A 2-story brick factory building, 50 x 201 ft., will be immediately erected.

ALBANY, N. Y.—D. McDonald & Co., the well-known makers of gas meters, will have a new factory at the North End, Albany, N. Y., 4 stories in height and occupying nearly a block.

BUFFALO, N. Y.—The plant of the Montgomery Brothers & Co.'s planing mill and box factory, on Court St., was partially destroyed by fire recently, causing a loss estimated at $17,000. The Pierce Automobile Co. occupied the top floor, where they manufactured the wooden frames for their cars. They estimate their loss at $100,000. The other occupants were the Cypher Incubator Co. and Niagara Laundry. Montgomery Brothers' loss is estimated at $50,000, the Cypher Co. at $15,000 and the Niagara Laundry, $5,000; partially covered by insurance.

SIDNEY, N. Y.—The F. S. Napier & Co., of New York, who are the owners of the Binghamton Silk Mill, situated on Park Ave., in Binghamton, will erect a new factory to manufacture silk dress goods in this place in the near future. The company will erect a plant valued at $35,000.

NEWARK, N. J.—W. Frank Bower, of E. Orange, N. J., has prepared plans for a large new leather manufacturing plant to be erected at Frelinghuysen Ave. and Concord St., to consist of a 3-story, brick building, 32 x 350 ft. in dimensions with a wing to be 32 x 50 ft. New plant is to be erected at a cost of $25,000.

WASHINGTON, PA.—It is reported that plans have been completed for the new steel factory which is soon to be built by the Hazlet Atlas Glass Co. Estimated cost $20,000.

YORK CITY, PA.—Contracts for the erection and equipment of a new plant in West York Borough have been awarded JOSEPH BLACK SONS' HOSIERY CO., and it is expected that the mill will be occupied and in operation early next spring. The main building of the proposed plant will front about 488 ft. on Mason alley. Three wings, all connecting with the main structure, will extend back the full depth of the lot, which is about 230 ft. Between the wings will be courts, which will permit of light penetrating every part of the building. Extending along the rear of the tract will be a building which will be used for dyeing purposes. The buildings will be of 1-story, with basement under the main factory.

PHILADELPHIA, PA.—Bids are asked by Armour & Co., of Chicago, Ill., for the erection of a cold storage and refrigerating plant to be built at Ninth and Hoble Sts. It is to be built of brick and steel and three stories in height. Complete equipment required.

YORK, PA.—SAMUEL GLADFELTER has been awarded the contract for the erection of the hosiery mill for the Joseph Black Hosiery Co. It is to be of concrete and brick, 1-story and 500 x 225. Estimated cost, $60,000.

ELKTON, MD.—A representative of Margherison & Co., textile manufacturers, of Philadelphia, appeared before Elkton Council, stating that his company contemplated the erection of a plant in Elkton, and asked for an exemption from municipal taxes for five years.

LONACONNING, MD.—The Kalts Throwing Co. will erect a new silk mill here. Contracts will be let soon.

NORFOLK, VA.—The Garret Winery will make extensive improvements to its building and plant, doubling the present capacity. The plans contemplate a building, 112 x 300 ft., and 150 ft. in height. Modern fireproof construction.

MANNINGTON, W. VA.—The Home National Gas Co. will erect a lamp black factory at Downs, three miles from this place. The buildings will be of structural iron and will cover four acres of ground. Work on the plant will be started within a few days. It will have a daily output of 150 barrels.

TOWNSEND, GA.—Townsend Brick Co. are installing a seven-kiln brick plant, using the "Weller" system. Solomon-Norcross Co. are their Engineers.

COLUMBUS, GA.—Muscogee Brick Co. are installing a large brick plant, using the "Weller" system. Solomon-Norcross Co. are their Engineers.

NEW ORLEANS, LA.—Fire practically destroyed the box factory of S. T. Alcus & Co., on the river front, at foot of Napoleon Ave., causing an estimated loss of $100,000. United States Ramie Fiber and Manufacturing Co. will build a decorticating plant for Ramie and other fibers at New Orleans within 90 days. It proposes later on to erect a yarn and thread mill either at New Orleans or Kansas City. J. Walter Farrar is Pres., 279 Live-Stock Exchange, Kansas City, Mo.

NEW ORLEANS, LA.—The United States Ramie & Fiber Mfg. Co., of Kansas City, Mo., will erect a plant here for the purpose of degumming fibers.

NASHVILLE, TENN.—The Hill Trunk Co.'s plant here was destroyed by fire recently. The loss was heavy.

HOPKINSVILLE, KY.—The Forbes Mfg. Co. will erect an extensive new plant here for the manufacture of wagons. The building will be 316 x 160 ft. It will be built of brick and will be two stories in height.

COLUMBUS, IND.—Plans have been prepared for the erection of a large leather plant for the American Harness & Leather Co., to replace their plant recently destroyed by fire. Estimated cost, $80,000.

DETROIT, MICH.—J. Wallace Page, Pres. of the Page Woven Wire Fence Co., of Adrian, will head a company to build an automobile factory in Detroit this fall. He owns a gasoline engine which has been applied successfully to the automobile.

WEST PULLMAN, ILL.—H. H. Richards, Arch., 134 Van Buren St., has completed plans for a foundry building for Osterman Mfg. Co. It is to be a 1-story, brick and steel building, 50 x 150 ft. Bids are being received.

PRENTICE, WIS.—Fire damaged the plant of the United States Leather Co. to the extent of $250,000.

COUNCIL BLUFFS, IOWA.—The city is considering the establishment of a municipal ice factory.

OWATONNA, MINN.—The Owatonna Gas Co. plan to make extensive improvements and additions to their plant. Two buildings are to be constructed. Estimated cost, $50,000.

BEATRICE, NEBR.—The McSweeney Packing Co. will erect a packing house here at a cost of $250,000.

VIRGINIA CITY, MONT.—Fire destroyed the Higbee & Watkins saw mill. Two hundred thousand feet of rough lumber, 50,000 ft. of finished lumber, the mill, bunk house, buildings, stables and granary, containing 10,000 lbs. of oats, were burned. The loss is $100,000, with no insurance.

ST. LOUIS, MO.—The St. Louis Frog & Switch Co. will build a new plant for the manufacture of frogs, switches, crossings, track appliances, etc. The plans, as prepared by Lichter & Jens, Consult. Engrs., call for the erection of a main building 100 x 200 ft., to cost $150,000.

GALVESTON, TEX.—The Spawn Fruit Importing & Evaporating Co., to be located at Texas City, has been organized, with a capital of $300,000. The company is the result of the efforts of A. F. Spawn. It has for its primary object the importing of bananas and their conversion into banana foodstuffs by evaporation. Bananas and other fruits will be imported from Mexico and South America and converted into flour, coffee, pastry material and confectionery.

OLYMPIA, WASH.—Six blocks of land between Eighth and Union Sts., just east of Moxley Creek, have been bought by the National Wood Pipe Co., of this city, and in the course of a few months a new large plant will be established on this site.

ABERDEEN, WASH.—F. L. Johnson and Hugh McDonald, of New Westminister, B. C., will erect a shingle mill at this place. The mill will have a daily capacity of 200,000 shingles.

RAINIER, ORE.—M. Bevens, J. Norwood and others are soon to establish a door factory at Rainier for the manufacture of fancy front doors.

PORTLAND, ORE.—The Acme Mills Co., of Lower Albina, is having plans prepared for a 4-story mill and 2-story warehouse. The mill will be 40 x 75 ft., and will occupy a site on Railroad Ave., while the warehouse will be 65 x 80 ft.

MONTREAL, QUE.—The Canadian Consolidated Rubber Co. has been granted a Dominion charter. The company was incorporated by Edward Fabre, Surveyor; Errol McDougal and Stephan John L. Hume, Accountant, all of Montreal. A $5,000,000 factory will be erected.

READERS' WANTS FOR THOSE IN THE MARKET
The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, mention Engineering News. Have you a copy of our Buyers' Guide? Engineering News Can Help Buyers.

HYDRAULIC RAMS.—Madison, Wis.—W. G. Kirchoffer, Vrooman Bldg., informs us that he desires to communicate with builders of hydraulic rams.

ROLLED SHEET BRONZE.—Tamaqua, Pa.—The Eureka Automatic Electric Signal Co., of Tamaqua, Pa., informs us that it desires to correspond with firms manufacturing rolled sheet bronze.

DREDGING MACHINERY.—Miami, Fla.—We are informed that P. L. Wilson, Dir. Engr. and Supt. of Dredges, Florida East Coast Ry., desires catalogs of dredging machinery of all kinds.

LEATHER MACHINERY.—New York, N. Y.—Markt & Co., Ltd., 193 West St., write us that they desire information concerning machinery to peel off leather and for joining leather in the manufacture of belting.

GAS PRODUCER ENGINE.—Madison, Wis.—W. G. Kirchoffer, Consult. Engr., Vroman Bldg., writes us that he is preparing plans for a large plant using suction gas producers and producer engines, and desires data on the subject.

ROLLER.—Albany, N. Y.—The Fort Orange Construction Co., 112 State St., Albany, informs us that it desires to purchase a light roller (about 1½ tons) for embankment work. One that can be handled by a single team is desired.

PAPER MAKING MACHINERY.—St. Petersburg, Russia.—We are in receipt of a letter from Anatole I. Fomilyant, stating that he is in the market for paper making and paper box making machinery, and desires catalogs and price lists of the same in duplicate.

CONTRACTOR'S MACHINERY. — Terre Haute, Ind.—The Foulkes-Forbes Co., of Terre Haute, Ind., informs us that it is in the market for machinery for its street improvement contracts. This includes road graders, wheeled scrapers, dump wagons and steam rollers.

NEW ENGLAND CONTRACTING CO., of this city, has been awarded the contract for the erection of a 1-story, brick and steel addition to the plant of the Automatic Nut-lock Co., of this city. The company was incorporated by Jos. Dobson, G. E. James and W. J. Henderson, Accountant, all of Montreal. A $5,000,000 plant will be erected.

OTTAWA, ONT.—Arrangements are about completed by which the Coventry Ordnance Works, Coventry, England, will start a factory near here to manufacture artillery, field guns and general machinery.

FORT WILLIAMS, ONT.—A Dominion charter was granted to the Northern Engineering Co., John Crerar, J. A. D. Vickers, W. J. Ross, and G. F. Mackenzie, Banker, were the incorporators of the company. A $100,000 plant will be erected.

VANCOUVER, B. C.—The British Columbia Power Co., Ltd., an organization composed of and financed by Vancouver men, has secured a site and will immediately commence the erection of a dynamite mill on the North Arm of Burrard Inlet. The plant will be in operation by the end of the year, and at the outset its daily output will be four tons of powder.

CRANBROOK, B. C.—The large plant of the East Kootenay Lumber Co. here, including sawmill plant and stock yards, were destroyed by fire. The loss will be in the neighborhood of $50,000. The company will still continue business without interruption, as they have extensive mills at Ryan and Jaffray, B. C.

VANCOUVER, B. C.—The Crystal Glass Works, Ltd., have been granted a charter. Estimated cost of plant to be erected is $150,000.

WINNIPEG, MAN.—It is reported that John Stanley Haugh, Charles Furguson and others are interested in a coal and coke plant to be erected at a cost of $2,000,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DREDGING.—Wilmington, Del.—Bids are asked until 11 a. m., Aug. 25, for dredging Cooper Creek, N. J. Maj. C. A. F. Flagler, Engrs. (Advertised Engineering News.)

LEVEE.—Greenville, Miss. — LAWRENCE BROS., of Friar Point, Miss., have been awarded contract for approximately 1,000,000 cu. yds. of levee work, at prices ranging from 23 to 26 cts. a cu. yd.

LEVEE.—Savanna, Ill.—Bids are asked until Aug. 20 for construction of Rush Creek Levee. Miller & James, Matoon, Ill., are Engrs. Specifications are on file at office of Engineering News, New York.

LEVEE.—New Orleans, La.—Bids are asked until 11 a. m., Aug. 14, by Capt. J. F. McIndoe, Engrs., for constructing about 114,000 cu. yds. of levee work in the Lake Borgne and Barataria levee districts.

PORTLAND CEMENT.—Portland, Ore.—Specifications are on file at office of Engineering News, New York, for furnishing 27,000 bbls. of cement. Bids are asked until Sept. 18, as advertised in Engineering News.

DREDGING.—Detroit, Mich.—Bids are asked until 2 p. m., Aug. 17, by Col. Charles E. L. B. Davis, Engrs., Jones Bldg., for dredging Shoal 28 in Mud Lake, St. Mary's River, Mich. (Advertised Engineering News.)

PORTLAND CEMENT.—Garden City, Kans.—Bids are asked by U. S. Reclamation Service until 10 a. m., Sept. 28, for furnishing 5,000 bbls. of Portland cement, f. o. b. cars at bidder's mills. (Advertised, Engineering News.)

LOCK.—Donaldsonville, La.—Plans, specifications, etc., for construction of lock at head of Bayou Lafourche are on file at office of Engineering News, New York. Bids are asked until Oct. 1, as advertised in Engineering News.

STORAGE WORKS.—Conconully, Wash.—Plans, specifications and bidding sheet for storage works, etc., near Conconully, are on file at office of Engineering News, New York. Bids are asked until Sept. 1, as advertised in Engineering News.

COAL-HANDLING PLANT.—San Quentin, Cal.—Bids are asked by the Bureau of Equipment, Navy Department, Washington, D. C., until 11 a. m., Oct. 8, for furnishing and erecting in complete working order a coal-handling plant at Naval Coal Depot at San Quentin, Cal. Forms, Cal., Bulletin S. Cowles, Ch. Bureau. (Advertised [illegible])

DAM APRON.—Albany, N. Y.—[illegible]only one bid was received by N. V. V. F[illegible]hot, Supt. Public Works, for the work of r[illegible]ring apron of dam on St. Regis River, at [illegible]her Falls, N. Y., that of B. P. Clark, of [illegible]her Falls, N. Y., at $5,183. Noted on Ju[illegible]6.

SCRAP IRON.—Panama.—Bid[illegible] are asked until 10.30 a. m., Aug. 31, by [illegible] W. Ross, Gen. Purchasing Officer, Is[illegible]n Canal Comm., Washington, D. C., fo[illegible],000 tons cast-iron scrap, 1,000 tons [illegible]-I steel structural material, 200 tons w[illegible]ght scrap.

CANALS, DITCHES.—Williston, N. Dak.—Plans, specifications and bidd[illegible] sheet for canals and structures, Buford-[illegible]ton Project, N. Dak., are on file at [illegible] of Engineering News, New York. Bi[illegible]re asked until Sept. 11, as advertised in [illegible]ngineering News.

DAM.—Columbus, Ohio.—Bids [illegible]re asked until noon, Aug. 30, for buildi[illegible] a dam, about 600 ft. in length, across [illegible]e Miami River at State Dam, about two [illegible]es north of Middletown. Charles E. P[illegible]ns, Ch. Engr. Bd. Public Works. (Adv[illegible]sed Engineering News.)

FIRE BOATS.—New York, N[illegible] Y.—Bids were received on July 31st for [illegible]structing three steel screw propelling fire b[illegible]s. Contracts were awarded as follows: [illegible] No. 1, JAMES REILLY REPAIR & SU[illegible]LY CO., 78 Beach St., $129,400. Boats No[illegible] and No. 3, to HARLAN & HOLLINGSW[illegible]TH, 11 Broadway, at $129,271 and $125,[illegible] respectively.

DRAIN.—St. Johns, Mich.—The [illegible]ntract for Stoney Creek drain, 18 miles in l[illegible]gth, has been awarded to HENRY PALMER for $8,-675. He was also awarded the [illegible]ntract for bridges amounting to $2,075, and [illegible]justments amounting to $474.50. Starting at Muskrat Lake this ditch runs north and a little east in Olive Township, then turns west and runs through the county.

DITCHES.—Portland, Ore.—Bids are asked until 3 p. m., Oct. 1, by the U. S. Reclamation Service, Portland, for building main and lateral ditches of the distributing system, Umatilla Project, Ore. The work is divided into two nearly equal schedules, and includes about 315,000 cu. yds. of earth and rock excavation. Thomas Ryan, Acting Sec'y., Dept. Interior. (Advertised Engineering News.)

CANAL WORK.—Billings, Mont.—The Secretary of the Interior has awarded contract to NELS L. OLSON, of Butte, Mont., for the construction of Division 1 of the Garland Canal, Shoshone Irrigation Project, Wyo. The work involves the excavation of about 620,000 cu. yds. of earth, about 96,000 cu. yds. of rock and shale, and the construction of incidental structures, about 15 miles northeast of Cody, Wyo. Mr. Olson's bid was $270,747.

TUNNEL.—Boston, Mass.—Bids were received as follows on Aug. 7, by the Boston Transit Commission, B. Leighton Beal, Secy., for constructing part of Section 10 of the Washington St. tunnel in Haymarket Sq.: Jas. J. Coughlan Construction Co., $35,940; Chas. R. Gow Co., Boston, $35,030; Patrick McGovern, Boston, $38,005; Naun Constructing Co., Boston, $37,305; Bruno, Salamone & Petitti, Boston, $36,805; Coleman Bros., Boston, Mass., $34,856.

DITCH DRAIN.—Danforth, Ill.—Bids are asked until noon, Aug. 11, for furnishing at Gilman, Ill., hauling and laying tile in the open ditch draining the lands of said district. The size of the tile to be as follows: 26 ft. of 24-in. tile; 2,174 ft. of 20-in. tile; 2,400 ft. of 18-in. tile; 2,900 ft. of 16-in. tile; 900 ft. of 15-in. tile. Bids will also be received separately for the tile delivered at Gilman, Ill., for hauling and for laying same. H. W. Schriefer, Clk. Drainage Comrs.

CANAL WORK.—Browning, Mont.—Only one bid was received in response to the advertisement of the Secretary of the Interior for proposals for the construction of Divisions 1, 2 and 3 of the main canal, St. Mary Irrigation Project, Mont. The bid was that of the Puget Sound Bridge & Dredging Co., of Seattle, Wash., amounting to $767,505. This company was recently awarded contract for the irrigation of the storage feed canal, Umatilla Irrigation Project, Ore.

DAM WORK.—Portland, Ore.—Bids are asked until Sept. 17, at Portland, Ore., the United States Reclamation Service office, for the construction of the Cold Springs dam, Umatilla Irrigation Project, Ore. The work involves about 694,000 cu. yds. of earth and gravel excavation, about 3,100 cu. yds. of concrete, about 3,100 cu. yds. of rock excavation and about 35,000 cu. yds. of rip-rap and rock fill. Bids recently received for this work were found to be excessive and were rejected.

SUBWAY.—Philadelphia, Pa.—The "Inquirer" on Aug. 3 stated that bids for building the Broad St. subway are shortly to be invited by the Philadelphia Rapid Transit Co. The detailed plans have not yet been filed with the Bureau of Surveys, but it is believed that they will be ready for approval before the end of the summer. The Broad St. subway is to run from Walnut St. to the county line. The route around City Hall is being provided for in the work now being done by E. E. Smith & Co. Plans for the Frankford L are to be filed soon.

CANAL IMPROVEMENT.—Dayton, Ohio.—The State Board of Public Works has awarded contracts for improvements along the Miami and Erie Canal, aggregating $95,551. Estimates on the work amounted to $118,037. The awards were made as follows: Dredging, ACME PAVING CO., Columbus, $42,100. Le Sourdsville Aqueduct abutments, FRANK DAVIS, Hamilton, $1,320. Sunfish Aqueduct abutments, JOHN SNYDER, Norwood, $1,068. Six Mile Aqueduct, DAVID BEARD, Dayton, $4,488. Miami Aqueduct, CAPITAL CONSTRUCTION CO., Columbus, $11,840. Reconstructing first six locks south of Middletown, FRANK DAVIS, Hamilton, $7,130. Reconstructing six locks between Hamilton and Lockland, FRANK DAVIS, Hamilton, $8,864. Two new concrete locks at Defiance, SCHNEIDER BROS., Defiance, $10,549. New concrete lock, six miles north of St. Marys, SCHNEIDER BROS., Defiance, $8,044. Spencerville Culvert, J. N. KISSNER, West Lafayette, $1,065.

TELEPHONE SYSTEM.—Mitchell, Nebr.—The Secretary of the Interior has approved the contract entered into by John E. Field, on behalf of the U. S. Government, and the Platte Valley Telephone Co., of Scottsbluff, Nebr., whereby the above-named company agrees to furnish telephone service in connection with the North Platte Irrigation Project, Nebr. and Wyo. It was found necessary to establish telephone connections between the headgates of the Interstate Canal, Whalen, Wyo., and the various located at Whalen camps and stations of the Reclamation service, in order to expedite the work of constructing the irrigation system. Eleven miles will be installed at the various camps and the company will place additional cars on the poles of its lines now in operation to be constructed between Whalen, Wyo., and Camp No. 8, Nebr., and to construct and maintain such new lines as may be necessary to connect the telephone stations with each other and with the various exchanges in the district lying between Guernsey, Wyo., and Bridgeport, Nebr. Long distance service may also be had with the Pathfinder dam site, located above Alcova, Wyo. According to the terms of the contract unlimited service will be furnished over the lines of the company until July 1, 1909, for the sum of $110 per month, and additional instruments will be installed and paid for at the rate of $3 per month if desired. The business of the U. S. Reclamation Service shall take precedence over the lines when possible, but not to the extent of interfering with the use of its toll lines for toll business; but between the hours of 8 and 9 p. m. of each day the business of the Reclamation Service shall have the right-of-way over all lines.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

BUILDING.—Honolulu, Hawaii.—The Japanese Government will erect a new consulate building at Honolulu to cost $100,000.

WHARF.—Alaska.—Bids are asked until 11 a. m. Aug. 20 by the Chief Quartermaster, Vancouver Barracks, Wash., for the construction of a wharf at Fort Liscum, Alaska.

ELECTRIC RAILWAY.—Hawaii. — The Kauai Ry. Co. has been chartered to build an electric railway from Kekaha to Wahaiwa. H. M. Von Holt and W. A. Kinney, of Honolulu, are interested.

ENGINEERING SUPPLIES. — Panama. — Bids are asked until Aug. 9, at 10.30 a. m., by the General Purchasing Officer of the Isthmian Canal Commission, Washington, D. C., for the following engineering supplies, under circular No. 320: Locomotive piston rods, crank pins, and axles, switch chains, bed hinge sockets for dump cars, hose, 40,000 sheets corrugated galvanized-steel roofing, 30,000 lin. ft. galvanized-steel ridge roll, sheet lead, sanitary fixtures, pipe fittings, lead pipe, pipe-bending machines, belt lacing, rubber belting, ambulance, white lead, white zinc and other minor supplies.

LUMBER.—Panama.—The General Purchasing Officer of the Isthmian Canal Commission, Washington, has awarded to the CHICAGO LUMBER & COAL CO., Chicago, Ill., contract for furnishing 2,100,000 ft. B. M. of lumber to the Isthmian Canal Commission. The price was $61,000. The bids received on July 17 for this lumber were as follows: American Lumber & Mfg. Co., Pittsburg, (a) $16,800; (b) $33,800; (c) $21,000; (d) $16,800; delivery 60-120 days; Chicago Lumber & Coal Co., St. Louis, (a) $12,000; (b) $23,200; (c) $15,000; (d) $10,800; delivery commence September; G. Elias & Bros., Buffalo, (a) $13,200; (b) $27,200; (c) $17,000; (d) $13,200; delivery, 30-60 days; Wm. D. Gill & Sons, Baltimore, (a) $13,380; (b) $26,760; (c) $16,725; (d) $13,800; time, 90-120 days; Robert H. Jenks Lumber Co., Cleveland, (a) $11,200; (b) $22,400; (c) $14,000; (d) $11,200; f. o. b. New Orleans; complete 60 days; Turnbull, Joyce Lumber Co., Chicago, (a) $12,360; (b) $24,720; (c) $15,450; (d) $12,360; complete, Sept. 26; Long Bell Lumber Co., Kansas City, Mo., (a) $12,800; (b) $25,600; (c) $16,000; (d) $11,000; complete, 100 days; Southern Saw Mill Co., New Orleans, (a) $11,800; (b) $25,200; (c) $15,200; (d) $12,200; complete, 90 days; J. J. Moore & Co., San Francisco, (a) $11,476; (b) $22,952; (c) $14,345; (d) $11,476; no time stated; bid on Douglas fir; H. Mosle & Co., Galveston, Tex., (a) $14,000; (b) $28,000; (c) $17,500; (d) $14,000; time, 30-90 days. All bids on long leaf yellow pine, unless stated otherwise.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

BARGE CANAL WORK.—Albany, N. Y.—Bids were received on July 25 by N. V. V. Franchot, Supt. Public Works, for the following contracts for barge canal improvement. Bids in detail are given. Noted last week. On contract No. 7, for steel highway bridge structures, there was but one bidder, the GROTON BRIDGE CO., of Groton, N. Y., and it was awarded the contract. The following are the items and detailed prices: (Contract No. 2, Erie Canal, Sect. 11—336,000 lbs. structural steel, 4.75 cts., 20,000 lbs. steel reinforcement, 4 cts.; 130 cu. yds. concrete in bridge floor, $10; 320 sq. yds. wood block pavement, including guaranteed bond, $2.50; 321 lin. ft. railings on bridge, $2; 444 lin. ft. railings on approaches, $1.50; removal of existing superstructure, $300; 2.4 cu. yds. setting stone coping, $2; 3 cu. yds. lining, $2. (Contract No. 3, Champlain Canal, Sect. 2)—326,000 lbs. structural steel, 4.75 cts.; 84 lin. ft. railings, $1.50; 20 M. B. M. yellow pine or Douglas fir, $45; 6.4 cu. yds. setting stone copings, $2; 7 cu. yds. lining, $2. (Contract No. 4, Erie Canal, Sect. 5)—380,000 lbs. structural steel, 4.75 cts.; 317,000 lbs. structural steel, 4.75 cts.; 44 M. F. P. or Douglas fir, $45; 1,650 lin. ft. railings, $1.50; removing temporary bridge, $1,000; 6.3 cu. yds. setting stone copings, $2; 6 cu. yds. lining, $2. (Contract No. 5, Erie Canal, Sect. 7)—197,000 lbs. structural steel, 4.75 cts.; 16.5 M. Y. P. or Douglas fir, $45; 2.6 cu. yds. setting stone copings, $2; 3 cu. yds. lining, $2. (Contract No. 6, Erie Canal, Sect. 9)—530,000 lbs. structural steel, 4.75 cts.; 47 M. Y. P. or Douglas fir, $45; 11.9 cu. yds. setting stone copings, $2; 12 cu. yds. lining, $2; allowance for old bridge at Waterford, $500; allowance for temporary bridge at Sylvan Beach, $1,500. Total, $97,635.

On Contract No. 15, Champlain Canal, Section 3, for excavating the canal and protecting its sides, and constructing Lock No. 11, Dam No. 4, and Lock No. 12, Dam No. 5, and appertaining structures, a spillway, a highway, two masonry culverts, five bridges with their piers and abutments, and other incidental details, between Lake Champlain at Whitehall, Sta. 0-73, and Sta. 356 on Wood Creek, about 0.6 miles north of Comstock's P. O. (length of contract, 6.8 miles), there were two bidders: (1) Kinser Construction Co., Railway Exchange, Chicago; (2) ATLANTIC, GULF & PACIFIC CO., Park Row Bldg., New York City (awarded contract). The itemized prices were as follows:

	(1)	(2)
Clearing, lump sum	$300.00	$300.00
12,000 cu. yds. grubbing	.30	.30
2,900,000 cu. yds. all excavation	.34	.285
50 M. B. M. sheeting and bracing	35.00	35.00
200,000 cu. yds. forming embankment	.15	.175
4,000 cu. yds. lining	1.50	1.50
40 M. ft. sawed hemlock	35.00	35.00
35 M. ft. sawed spruce	35.00	35.00
95 M. ft. sawed Y. P. or Douglas fir	45.00	50.00
4.5 M. ft. white oak mitre sills	100.00	100.00
850 cu. yds. stone filling in cribs	1.00	1.00
3,500 foundation piles, 15 ft. long	3.25	2.75
2,500 foundation piles, 18 ft. long	4.50	4.50
1,300 foundation piles, 20 ft. long	5.00	5.00
30 fender piles, 28 ft.	9.00	9.00
2225 M. sheet piling	35.00	40.00
53,240 cu. yds. 2d class concrete	6.00	6.00
706 cu. yds. reinforced concrete in bridge approaches, culverts, power plants, etc.	10.00	10.00
270 cu. yds. reinforced concrete in bridge superstructures	12.00	12.00
16 cu. yds. 1st class masonry, dam coping	40.00	40.00
12 cu. yds. 1st class masonry, bridge coping	20.00	20.00
80 cu. yds. dry retaining wall, to be rebuilt	3.00	3.00
50,000 cu. yds. wash wall	2.00	2.25
1,200 sq. yds. 3d class stone paving	1.50	1.50
950 cu. yds. 2d class riprap	2.00	2.00
7,300 cu. yds. 3d class riprap	2.00	2.00
300 lin. ft. 4-in. vitr. pipe	.10	.10
166,000 lbs. iron castings	.03	.03
50,000 lbs. iron castings, machined	.06	.06
1,100,000 lbs. structural steel	.05	.05
140,000 lbs. metal reinforcement	.04	.04
4,500 sq. ft. Portland cem. sidewalks	.20	.20
200 sq. ft. paved gutters	1.00	1.00
760 sq. yds. wood block paving	2.50	2.50
3,500 lin. ft. wood fencing	.20	.20
200 cu. yds. ballast	1.50	1.50
650 lin. ft. scroll railing	2.00	2.00
240 lin. ft. lattice railing	1.50	1.50
800 lin. ft. w.-i. pipe railing	1.00	1.00
4 upper lock gates	2,600.00	2,600.00
2 lower lock gates, lock No. 11	3,900.00	3,900.00
2 lower lock gates, lock No. 12	4,600.00	4,600.00
2 needle dams, lock No. 11	2,600.00	2,600.00
1 needle dam, upper end, lock No. 12	2,400.00	2,400.00
1 needle dam, lower end, lock No. 12	3,100.00	3,100.00
1 needle dam across bead race	700.00	700.00
8 lock valves	900.00	900.00
1 movable crest, dam No. 5	4,300.00	4,300.00
Removing old bridge superstructures	2,600.00	2,400.00
Removing buildings, cleaning vaults and contingencies	30,000.00	39,900.00
Allow for value of bridge superstructure	2,000.00	2,400.00
Allowance for value of buildings	30,000.00	32,000.00
	$1,649,460	$1,509,060

On Contract No. 34 there were four bidders: (a) M. FITZGERALD, Hoosick Falls, N. Y. (awarded contract); (b) United Construction Co., Albany; (c) Groton Bridge Co., Groton, N. Y.; (d) Eastern Steel Co., New York City. The contract is for erecting a steel highway bridge superstructure over the Erie Canal at Saratoga Ave., Waterford, N. Y. The prices were as follows: 352,000 lbs. structural steel, per lb., (a) 4.5 cts., (b) 4.9 cts., (c) 4.9 cts., (d) 6.25 cts. 200 cu. yds. reinforced concrete in bridge floor, per cu. yd., (a) $8, (b) $11, (c) $10, (d) $13. 29,000 lbs. steel reinforcement, per lb., (a) 3.75 cts., (b) 3.75 cts., (c) 4 cts., (d) 5 cts. 480 sq. yds. wood block pavement, including guarantee bond, per sq. yd., (a) $3, (b) $3, (c) $2.50, (d) $6. 314 lin. ft. iron railings, per lin. ft., (a) $2, (b) $1.90, (c) $2, (d) $2.25. Four cu. yds. setting stone copings, per cu. yd., (a) $3, (b) $1.80, (c) $2, (d) $2. Four cu. yds. lining, per cu. yd., (a) $2, (b) $1.80, (c) $2, (d) $2.

*SUPERSTRUCTURE.—Chicago, Ill.—The following are the bids opened on June 30 by Lieut.-Col. W. H. Bixby, Engrs., U. S. A., for concrete superstructure in Chicago Harbor: (a) John J. O'Heron, 6 Wabash Ave., Chicago; (b) Jackson & Corbett, Clark and Polk Sts., Chicago; (c) The FitzSimons & Connell Co., 131 La Salle St., Chicago; (d) Great Lakes Dredge & Dock Co., Chamber of Commerce Bldg., Chicago:

BIDS RECEIVED AT CHICAGO ON JUNE 30 FOR CONCRETE SUPERSTRUCTURE IN CHICAGO HARBOR.

	(a)	(b)	(c)	(d)
Removing one crib 50 x 30 ft. and about 19 ft. high, lump sum	$1,500.00	$2,500.00	$1,000.00	$900.00
Replacing one new crib, 30 x 30 x 20½ ft., lump sum	4,500.00	5,500.00	3,000.00	2,600.00
Removing old superstructure and leveling cribs, 1,000 lin. ft.	15.00	4.00	10.50	11.70
2.4 M. ft. white oak timber	95.00	55.00	60.00	60.00
23.5 M. ft. pine timber	50.00	50.00	50.00	60.00
328 white oak piles	15.00	16.65	18.00	16.00
20 Norway pine piles	13.50	16.65	17.50	15.00
24,850 lbs. w. i. screw bolts, tie rods, turn buckles and anchor rods	.06	.07	.05	.05
8,450 lbs. steel or wrought iron drift bolts	.04	.04	.04	.04
25,930 lbs. wrought iron T rails, with bolts	.04	.035	.03	.035
180 lbs. channel irons	.04	.035	.05	.03
90 lbs. wrought iron staples	.06	.06	.05	.10
2 manhole covers, with frames, etc.	15.00	8.00	10.00	15.00
900 lin. ft. wire rope	.20	.20	.05	.12
200 cords riprap stone, per cord of 128 ft.	5.50	5.00	6.00	6.50
370 cu. yds. broken stone and gravel fill (floor of passage)	2.50	2.25	2.00	1.90
1,825 cu. yds. concrete blocks (No. 1, concrete)	15.00	7.10	9.25	8.90
2,490 cu. yds. concrete in mass (No. 1, concrete)	15.50	7.50	8.25	8.90
655 cu. yds. concrete in mass (No. 2 concrete)	8.00	5.25	7.25	8.00
Totals	$104,092	$59,349	$68,687	$70,690

*REPAIRING DAM.—Cincinnati, Ohio.—Bids were received on July 27 by Maj. J. G. Warren, Engs., for repair of dam No. 9, Muskingum River, Ohio, with concrete. The following are the itemized bids received: (1) Edward J. Landor, Canton, Ohio; (2) J. C. Williams, Zanesville, Ohio; (3) Gregg & Hoffman, Zanesville, Ohio; (4) Louis H. Wendt, Newport, Ky.; (5) J. A. Swingle & Co., Zanesville, Ohio; (6) Clifton Bros., Durant, Ohio:

Bids received on July 27, at Cincinnati, Ohio, for repairing dam No. 9, Muskingum River.

		(1)	(2)	(3)	(4)	(5)	(6)
Excavation	2,400 cu yds.	$0.95	$1.00	$0.80	$1.75	$1.75	$0.60
Timber	45,000 ft. B. M.	37.50	32.00	28.00	80.00	48.00	30.00
Stone	900 cu. yds.	1.75	1.25	1.60	2.00	2.50	.30
Concrete	4,400 cu. yds.	6.50	4.73	5.60	7.10	7.20	4.90
Total		$34,142	$25,777	$29,200	$40,850	$40,290	$24,620

REINFORCED CONCRETE BRIDGE.—Boston, Mass.—Bids were received by the Metropolitan Park Commission, Engineering Dept., on July 23, for building a reinforced concrete bridge at Auburn St., Mystic River Reservation, Medford. John R. Rablin, Engr. The bidders and the bids in detail were as follows: (1) Bruno, Salomone & Petitti, Boston; (2) T. H. Gill & Co., Boston; (3) Coleman Bros., Boston; (4) ROWE & PERINI, South Framingham, Mass. (awarded contract):

Bids received on July 23 for a Reinforced Concrete Bridge at Medford, Mass.

	(1)	(2)	(3)	(4)
25,000 cu. yds. earth grading	$0.83	$0.48	$0.48	$0.47
1,000 cu. yds. concrete masonry	8.00	6.40	6.50	6.00
325 lin. ft. coping, to be set	1.00	.40	.50	.40
1 reinforced concrete arch, 60-ft. span	7,000.00	5,400.00	4,800.00	2,943.00
Totals	$36,075.00	$23,930.00	$23,462.00	$20,823.00

CIVIL SERVICE EXAMINATIONS

CIVIL ENGINEER.—Manila, P. I.—The U. S. Civil Service Commission announces an examination on Aug. 29-20, 1906, to secure eligibles to fill at least ten vacancies in the position of assistant engineer, at salaries of $1,400 to $1,600 a year, and two or more at a salary of $1,800 a year each, in the Philippine Service, and similar vacancies as they may occur in that service. Age limit, 18 to 40 years. Application forms 2 and 375.

ENGINEER.—Fort McKinley, Portland, Me.—The U. S. Civil Service Commission announces an examination on Sept. 5, 1906, to secure eligibles to fill a vacancy in the position of engineman, at $1,000 a year, Quartermaster's Department at Large, Fort McKinley, Me., and vacancies as they may occur in any branch of the service requiring similar qualifications. As the Commission has experienced considerable difficulty in securing a competent person for the specific vacancy mentioned, qualified persons are urged to enter this examination. Age limit, 20 years. Application Form 1093.

ENGINEER.—Warmsprings, Ore.—An examination is announced by the U. S. Civil Service Commission on Aug. 29, to secure eligibles to fill the following-named vacancies, and vacancies as they may occur in the Indian Service, requiring similar qualifications: Engineer, $720 a year, Warmsprings, Ore., as the result of examination in Branches 1 and 2. Applicants must indicate in their applications that they have a knowledge of electric lighting. Engineer, at $720 a year, San Juan, N. Mex., as the result of examination in Branch 1. Applicants must indicate in their applications that they have a knowledge of plumbing. Age limit, 20 years. Application Form 1093.

INSPECTOR OF SEWERS AND WATERWORKS.—Manila, P. I.—An examination is announced on Aug. 29 by the U. S. Civil Service Commission to secure eligibles to fill the following-named positions at Manila, the first mentioned, the salary of which probably will be higher. Age limit, 18 to 40 years. Application forms 2 and 1093.

ARCHITECTURAL DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Aug. 29-30, 1906, to secure eligibles to fill at least five vacancies in the position of architectural draftsman in the Office of Supervising Architect, Treasury Department, at salaries ranging from $1,200 to $1,800 a year; a vacancy in the position of architectural draftsman, $1,320 a year, U. S. Military Academy, West Point, N. Y., and vacancies as they may occur in any branch of the service requiring similar qualifications. A large number of architectural draftsmen in all grades will probably be required in the near future. The chances, therefore, of competent men for appointment are good. Age limit, 20 years. Application form 1312.

CHEMIST.—Manila, P. I.—The U. S. Civil Service Commission announces an examination on Aug. 29, 1906, to secure eligibles to fill a vacancy in the position of chemist, Bureau of Science, Manila, P. I., at $1,500 a year, and vacancies as they may occur in the Philippine Service requiring similar qualifications. It will not be necessary for applicants to appear at any place for examination. Their eligibility for the position will be determined upon the evidence furnished in application Form 375 concerning their education, training and experience. Qualifications.—It is desired to secure the services of a young man, energetic and capable, who has had several years of university training in a first-class institution, and this training should include a thorough foundation in all lines of the science, such as can be obtained by persons specializing in chemistry at any one of the first-class schools which make a specialty of giving chemical training. His main training should be in organic chemistry. The work required is of a routine nature, and covers analytical methods and results, and the person appointed must be accurate and careful, and he should have a good technique. There are in the Bureau, however, other chemical positions which are practically for purposes of research. There is a considerable number of positions the salaries of which range from $1,000 to $2,250 a year, and even higher, so that the person appointed to the position for which this examination is held, if he proves himself capable of filling higher positions, will have promotions open to him as rapidly as vacancies occur, and it is stated that such vacancies will not be too long delayed. The person appointed must not only have the ability and technique, but he must have ambition to push his work in every way possible and to keep abreast of literature. The laboratory is thoroughly equipped for all classes of chemical work. Age limit, 18 to 40 years on date of the examination. Applicants should at once apply to the U. S. Civil Service Commission, Washington, D. C., for application Forms 2 and 375. No application will be accepted unless properly executed and filed, in complete form, with the Commission at Washington prior to the hour of closing business on Aug. 29. In applying for this examination the exact title as given at the head of this announcement should be used in the application.

TRADE PUBLICATIONS.

STATIONARY ENGINES. — Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1505. Paper; 8 × 10½ ins.; pp. 18; illustrated.

Heavy duty Corliss engines of the belted type are described and illustrated in detail in this bulletin.

CEMENT SHINGLE MACHINERY.—Wickes Brothers, Saginaw, Mich. Paper; 6 × 9 ins.; pp. 16; illustrated.

Cement shingles are among the most recent products in cement building material, and the pamphlet illustrates hand and power machines for the manufacture of shingles of different kinds.

COAL-HANDLING MACHINERY.—C. W. Hunt Co., West New Brighton, Staten Island, N. Y. Catalogue No. 063. Paper; 6½ × 9½ ins.; pp. 60; illustrated.

Coal-handling machinery of all kinds, including both complete apparatus and parts, and ranging from coal elevators down to wheel-barrows, is comprised in this pamphlet.

GARBAGE CREMATION.—Smead & Co., Cincinnati, Ohio. Paper; 5¾ × 9 ins.; pp. 14; illustrated.

Smead's traveling crematory is designed to pass through the streets of a city and burn the garbage deposited in it as it progresses; the sterilized liquid resulting from the process is run into the sewer at convenient intervals.

SEWAGE REMOVAL.—The Ellis Co., 216 West 23d St., New York City. Paper; 6 × 9½ ins.; pp. 36; illustrated.

This pamphlet is mainly devoted to the Ellis automatic ejector system or sewer lift, for the removal of liquid waste from buildings where fixtures are set below the sewer level. Other appliances of an allied nature are also described.

WIRE ROPE.—John A. Roebling's Sons Co., Trenton, N. J. Paper; 9¼ × 7 ins.; pp. 53; illustrated.

This is a new edition of the pamphlet on "The Splicing of Wire Rope," differing from the old in that the illustrations are new, representing the splicing of a 1-in. rope whereas the old edition represented a ¾-in. The illustrations thus afford a clearer idea of the process.

METALLIC ROOFING.—Merchant & Evans Co., Philadelphia, Pa. Paper; 8 × 5½ ins.; pp. 56; illustrated.

This pamphlet, entitled "Roofing Rules," is intended to be a hand-book on sheet metals in building construction for architects, engineers and builders. Besides such information it tells how to apply "Merchant's Old Method," roofing and other metallic products of the company.

FIREPROOF CONSTRUCTION.—The National Fireproofing Co., Pittsburg, Pa. Paper; 6 × 9 ins.; pp. 12; illustrated.

This pamphlet, entitled "The City Unburnable," describes a possible method of building a fireproof city by the use of the National Fireproofing Co.'s plans and materials, as used in the model building at Chicago built for the Fire Insurance Underwriters' Association.

GAS METERS.—Pittsburg Meter Co., East Pittsburg, Pa. Paper; 6 × 9 ins.; pp. 40; illustrated.

The Westinghouse dry gas meter is made of greater capacity than the ordinary standard meter and has other points of merit mentioned in this pamphlet. Prices are given and directions for installing and using gas meter provers; also a table showing percentages of error.

LININGS FOR CEMENT ROTARY KILNS. —Laclede Fire Brick Manufacturing Co., St. Louis, Mo. Paper; 6¼ × 9 ins.; pp. 5; illustrated.

A new lining for the hot zones of Portland cement rotary kilns, called Bauxite, was tested in a continuous run of 11 months and 5 days. The results of the test and comparative estimates of cost based upon it are given in this pamphlet.

GASOLINE ENGINES.—Fairbanks, Morse & Co., Chicago, Ill. Catalogue No. 80 B. Paper; 6 × 9 ins.; pp. 32; illustrated.

Fairbanks-Morse gasoline engines and their many applications in connection with dynamos, pumps, feed mills, etc., form the subject of this pamphlet. Its feature is the "Jack of all Trades" engine for use on the farm. Sizes and dimensions of all engines are supplied and their various applications illustrated.

STEEL PIPES.—The East Jersey Pipe Co., Paterson, N. J. Paper; 9 × 6 ins.; pp. 36; illustrated.

The Ferguson lock-bar steel pipe forms the subject of this pamphlet. Its history, method of manufacture, etc., are described, and tests and letters of commendation are published. There are also numerous fine illustrations, including a photogravure. The lock-bar, it may be added, is a substitute for riveted longitudinal joints.

WATER STORAGE TANKS AND TOWERS. —Flint & Walling Manufacturing Co., Kendallville, Ind. Catalogue No. 47. Paper; 5¼ × 9 ins., pp. 48; illustrated.

Elevated tanks for the storage of water and substructures therefor are described in this pamphlet. The tanks are built of white pine or Louisiana red cypress, and the substructures of steel. Tables affording useful information relative to capacities of tanks, etc., and a partial list of customers are published.

FLEXIBLE EXPANSION JOINTS.—A. L. Holmes, Grand Rapids, Mich. Paper; 9 × 6 ins.; pp. 20; illustrated.

Holmes flexible and expansion joints are especially adapted to making connections for submerged pipes for water, gas, oil, etc.; also for pipes carried across bridge, to allow for vibration and for the expansion and contraction caused by changes in temperature. This pamphlet contains descriptions and illustrations of them, together with specifications and prices.

ELECTRIC LIGHTS.—Cooper Hewitt Lamp Co., Pittsburg, Pa. Paper; 5 × 7½ ins.; pp. 29; illustrated.

The Cooper Hewitt mercury vapor lamp is described in this pamphlet, entitled "The Economical Lighting of Industrial Plants." Because of its diffused light, greenish color, comparative lack of heat and economy of operation it is claimed to be especially serviceable in drafting rooms, offices, factories and other places requiring illumination where distinction of color shades is not important.

ELECTRIC MOTORS.—Crocker-Wheeler Co., Ampere, N. J. Bulletin No. 66. Paper; 7⅛ × 10 ins.; pp. 8; illustrated.

The form W direct current electric motor described in this bulletin is especially designed for rolling mill service, which requires an inclosed motor for intermittent but heavy and jerky work. The features of this motor are strength, close bearings, single-turn armature coils with no sparking on commutator, and asbestos insulation, protecting against heat internal or external. It is built for outputs of 25, 50, 75 and 100 HP.

WATER-WHEEL GOVERNORS. —Sturgess Engineering Department, The Ludlow Valve Manufacturing Co., Troy, N. Y. Paper; 8 × 10 ins.; pp. 62; illustrated.

Sturgess governors of various standard types are described in detail in this pamphlet. Specifications, diagrams, tests of efficiency and directions for determining type and size in selecting a governor are given. A description of pumping apparatus for use with these governors follows. The pamphlet also contains views of some of the water power plants regulated by Sturgess governors and numerous commendatory letters from users.

ELECTRICAL SUPPLIES.—The Westinghouse Electric & Manufacturing Co., Pittsburg, Pa. Paper; 6 × 8 ins.; pp. 63; illustrated.

This pamphlet is intended for the Mexican and South American trade, and is written in the Spanish language. It comprehends a general introduction to the Westinghouse group of companies, their products, and business methods; descriptions of the larger and more important apparatus manufactured by them; and a list of some of their patrons in the Spanish-speaking countries of America. The pamphlet is evidently designed to enlist new trade; the descriptions are only general, and no dimensions or specifications of machines, etc., are given.

ELECTRIC LIGHTS.—Nernst Lamp Co., Pittsburg, Pa. Paper; 6 × 9 ins.; pp. 16; illustrated.

The Nernst series alternating glower lamp is especially designed for street lighting, to compete with the Welsbach gas system. This pamphlet explains the defects of the arc light system and shows how the Nernst lamp may be used to supplement it. The lamps recommended are of the single glower type, with the heater made in the form of a helix about the glower; they are used in connection with a small series transformer, the primary coil of which may be connected in series on any 6.6 or 7.5 ampere alternating current constant current circuit.

CORRUGATED SHEET STEEL.—The Brown Hoisting Machinery Co., Cleveland, O. Paper; 6 × 9 ins.; pp. 32; illustrated.

Ferroinclave is a corrugated sheet steel of special shape, used principally in the construction of fire-resistive roofing, siding, flooring, etc., for factory buildings, power plants and the like. After it is secured in place it is coated on both sides with Portland cement mortar, and thus forms a reinforced concrete construction. The pamphlet describes Ferroinclave and the method of using it, and gives detailed tests of the strength and fire-resisting qualities of various constructions made with it. The Brown suspension steel coal bin, for which a Ferroinclave lining is recommended, is also described.

PUMPS AND AIR COMPRESSORS.—The National Steam Pump Co., Upper Sandusky, Ohio. Paper; 6 × 9 ins.; pp. 100; illustrated.

This is a general catalogue of single and duplex pumping machinery and air compressors. It includes lists of parts with their ordering numbers, and many useful tables for calculations of pressures, etc.

ELECTRICAL APPARATUS.—The Stanley G. I. Electric Mfg. Co., Pittsfield, Mass. Three pamphlets.

Bulletin No. 611 describes the G. I. snap switch. Circular No. 784 is devoted to the G. I. incandescent lamps, quoting prices on small and large lots. Circular No. 781 gives description and list prices of the G. I. type J. primary fire-box or transformer; its capacity is 30 amperes, 2,500 volts.

DRILLING MACHINERY.—Cyclone Drill Co., Orrville, Ohio. Paper; 6 × 9 ins.; pp. 80; illustrated.

Drilling machinery for all purposes, including drills, tools and supplies, are listed in this pamphlet, with descriptions and prices. Besides the Cyclone lines, this company also manufactures those formerly made by the Preslar-Crawley Manufacturing Co., whose plant and business they have taken over.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 50.

BUILDINGS.

Hudson, N. Y.

Sealed proposals, suitably endorsed on envelope, for construction, heating, plumbing and electric light wiring and fixtures for two cottages, and finishing third story of industrial building at the New York State Training School for Girls, Hudson, N. Y., will be received up to 12 o'clock noon on Wednesday, the 22d day of August, 1906, by Charles H. Strong, President of the Board of Managers, at New York State Training School for Girls, Hudson, N. Y., when bids will be opened and read publicly.

Drawings and specifications may be consulted and blank forms of proposals obtained at the New York State Training School for Girls, Hudson, N. Y., or by application to G. L. Heins, State Architect, Capitol, Albany, N. Y.

Contracts will be awarded to the lowest responsible and reliable bidders unless the bids exceed the amount of funds available therefor, in which case the right to reject all bids is reserved.

NOTE.—Only bids for the complete work of construction, heating, plumbing and electric work combined will be considered. 6-1t

ROAD IMPROVEMENTS.

Mt. Kisco, N. Y.

Sealed proposals will be received by the Town Board of the Town of Bedford, Westchester Co., N. Y., at the office of the Town Clerk, in the Village of Mt. Kisco, until 4 o'clock P. M., on the 23d day of August, 1906, when they will be opened.

For macadamizing, grading and otherwise improving the road or highway leading from Bedford Station to Katonah Village, a distance of about two and one-tenth (2.1) miles. Also the road or highway leading from Bedford Station to the northerly line of the Village of Mt. Kisco, a distance of about one and eight-tenths (1.8) miles. And the road or highway leading westerly from the Bedford Station, Mt. Kisco Road to the New Castle Town Line, a distance of about one and two-tenths (1.2) miles.

Plans may be seen, blank forms of proposals, specifications and other necessary papers can be obtained on application at the office of Joseph E. Merriam, the Town Clerk, or at the office of Byrne & Darling, Engineers-in-Charge, White Plains, N. Y., on and after Friday, August 10th.

The Town Board reserves the right to reject any and all bids or to accept any bid or bids, which in their judgment may be most favorable to the Town of Bedford.

JOSEPH E. MERRIAM,
Town Clerk.

Dated Mt. Kisco, N. Y., August 1st, 1906.
By order of the Town Board. 6-2t

DEPARTMENT OF THE INTERIOR, Washington, D. C., August 7, 1906.—Sealed proposals will be received at the Office of the United States Reclamation Service, Garden City, Kansas, until 10 o'clock a. m., September 28, 1906, for furnishing 5,000 barrels of Portland cement f. o. b. cars at bidder's mill. Particulars may be obtained by application to the Chief Engineer of the Reclamation Service, Washington, D. C., and to the engineer, Garden City, Kansas. THOS. RYAN, Acting Secretary. 6-4t

WATER AND SEWERAGE SYSTEMS.

Wales, Wis.

Sealed bids will be received by M. J. Tappins, Secretary State Board of Control, Madison, Wis., until 10 a. m., August 21st, 1906, for the laying of water pipe and sewers, the construction of a 50,000-gallon concrete reservoir and a sewerage disposal plant, and the furnishing of an electric or steam driven deep well pump, for the State Sanitorium at Wales, Wis.

Each bid must be accompanied by a certified check for 5% of the approximate gross amount of the bid as a guarantee of good faith on the part of the bidder. A bond of 25% of the gross amount of the bid will be required of all constructors for labor.

Plans and specifications may be seen at the office of the State Board of Control, Madison, Wis.; at 31 Vroman Bldg., Madison, Wis., and the office of the Builders & Traders Exchange, Milwaukee, Wis.

The right is reserved to reject any or all bids.

W. G. KIRCHOFFER, Engineer,
Madison, Wis.
M. J. TAPPINS, Secretary,
State Board of Control, Madison, Wis. 6-1t

CONCRETE BRIDGE.

Carbondale, Pa.

Sealed proposals will be received by the City of Carbondale, at the office of the City Clerk, until 8 p. m., Monday, August 20th, 1906, for the erection of a reinforced concrete bridge over the Lackawanna River at Seventh Avenue. Bidders will submit plans and specifications. Each bidder must enclose with bid cash or certified check in the sum of five hundred ($500) dollars as a guarantee of good faith to execute a contract within ten (10) days from date of award. The City reserves the right to reject any and all bids.

By order of Councils.

H. T. WILLIAMS,
City Clerk.
6-2t

PAVING.

Archbold, Ohio.

Sealed bids will be received at the office of the Clerk of the Village of Archbold, Fulton County, Ohio, until 12 o'clock noon, August 20th, 1906, for furnishing the necessary labor and materials for the improvement of Holland Street.

The right is reserved to reject any and all bids.

By order of the Council.

O. W. HILL,
Clerk of the Village of Archbold,
Fulton County, Ohio.
July 19th, 1906. 6-1t

Situations Open

WANTED—An instructor in civil engineering at an Eastern engineering college; salary, $90 per month for nine months, beginning Sept. 15; graduates of 1904 and 1905 may apply, stating age, qualifications, experience and references. Address "F. A. 6," Engineering News, New York. 6-2t

WANTED—Four engineering students or recent graduates as chainmen and rodmen on job in New York City. Address "X. A. 6," Engineering News, New York. 6-2t

WANTED—Man to check detail drawings for a structural shop, New York City. State age, experience, salary expected and time of commencing work. Address "D. A. 6," Engineering News, New York. 6-1t

WANTED—Civil engineer, college graduate, with at least two years' experience in estimating cost of reinforced concrete structures; future assured, if services are satisfactory; salary to start, $150 per month and traveling expenses. Address "E. A. 6," Engineering News, New York. 6-1t

WANTED.—A salesman, familiar with waterwheel machinery. Preference will be given to applicants acquainted with engineering firms engaged in water power development, and with the leading men connected with water power installations. Technical training not absolutely essential though preferable. A permanent position for the right man. State age, whether married or single, present or past business connections and references. Address "A. A. 5," Engineering News, New York. 6-1t

Miscellaneous Wants

WANTED

About 70 or 80 H. P. Portable Boiler

suitable for a working pressure of 125 to 150 lbs. Wish them complete, ready to place on flat car and attach to engine. Delivery in Minnesota. Prefer to rent and will pay good price. Address at once, with full particulars, F. C. HARPER, 813 First National Bank Bldg., Chicago. 6-1t